

**TROY ASBESTOS PROPERTY EVALUATION**

**SUMMARY OF 2008 VISIBLE VERMICULITE VERIFICATION ACTIVITIES**

**FINAL REPORT**

**Troy Operable Unit Number 7  
of the Libby Asbestos Superfund Site**

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Prepared for:

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CDM Field Audit Reports

# 1.0 INTRODUCTION

This section explains the purpose of the report, provides background information, introduces the verification activities described later in the report, and explains how the report is organized.

## 1.1 Purpose of Report

This report summarizes the steps taken in 2008 by Montana Department of Environmental Quality (DEQ), U.S. Environmental Protection Agency (EPA), and Tetra Tech EM Inc. (Tetra Tech) to resolve the apparent discrepancy identified between visible vermiculite (VV) observations recorded by Tetra Tech during the 2007 Troy Asbestos Property Evaluation (TAPE) field season and the corresponding analytical results for soil samples. The report also presents the findings of these efforts.

## 1.2 Background

In early 2008, DEQ requested that Tetra Tech evaluate the 2007 TAPE data to assess whether laboratory results for Libby amphibole (LA) in soil samples corresponded as expected (based on observations at Libby Operable Unit 4) to VV observations recorded in the field log books and in the Troy Scribe database. The Troy Scribe database is electronically populated from the GeoXT handheld computers used in the field.

TAPE analytical data management follows the protocols outlined in the TAPE work plan ([Tetra Tech 2007](#)), as modified, in that soil samples are assigned to one of four bins on the basis of laboratory results for LA. Bin A includes samples in which no LA was detected. Bin B1 includes samples with detectable but less than 0.2 percent LA; estimated in terms of percent asbestos by weight. Bin B2 includes samples found to contain 0.2 percent but less than 1 percent LA; estimated in terms of percent asbestos by weight. Bin C includes samples with 1 percent or more LA; estimated in terms of percent asbestos by weight.

In March 2008, Tetra Tech conducted an initial query comparing bin designation with VV observations. The expected outcome was that samples with detectable LA (based on laboratory analysis) would have corresponding recorded field observations of VV; however, the query revealed a poor correlation between VV and detectable LA. Results from this initial query are summarized in [Table 1](#).

DEQ asked Tetra Tech to carry out a series of verification steps to rule out data generation or data management error as the source of the poor correlation.



### 1.3 List of Verification Activities

Tetra Tech performed the following data management and field verification steps to verify that the poor correlation between VV and LA was not a result of data generation or data management error.

1. Data management verification included a series of follow-on Troy Scribe database queries as well as manual verification of randomly-selected soil sample records.
2. Field verification included VV re-inspections and additional soil sample collection.

These two verification steps are described in more detail in [Section 2](#).

In addition to the verification steps conducted by Tetra Tech, CDM performed two field audits in 2008 to ensure that VV was being identified and described in a manner consistent with standard operating procedure (SOP) CDM-LIBBY-06 (Appendix B to the TAPE work plan [[Tetra Tech 2007](#)]). The memoranda presenting the results of these audits are provided as an [attachment](#) to this report.

The poor correlation between VV observations and LA data also prompted the EPA to perform verification and audits of both the on- and off-site laboratories handling the Troy samples. The EPA findings are not presented in this summary report.

### 1.4 Organization of Report

[Section 1](#) explains the purpose of the report and provides background information. The verification activities are described in [Section 2](#) and are summarized in [Section 3](#). References are provided in [Section 4](#). Figures and tables follow [Section 4](#). Additional details about the verification activities are included in appendices and attachments to this report. The Troy Scribe database queries and manual verification of randomly selected samples are described in a memorandum provided in [Appendix A](#). The VV re-inspections and additional soil sampling activities are described in Record of Modification TFO 8, provided in [Appendix B](#). A spreadsheet summarizing the 2007 VV inspection and 2008 VV re-inspection results is provided in [Appendix C](#). The 2008 field audit reports prepared by CDM are provided as an [attachment](#) to this report.

## 2.0 DESCRIPTIONS OF VERIFICATION ACTIVITIES

Early in 2008, DEQ asked Tetra Tech to carry out a series of verification steps to rule out data generation or data management errors as the source of the poor correlation between VV observations and LA results for the 2007 soil samples. Tetra Tech conducted a series of data management and field protocol verification activities to complete this effort.

Data management verification is summarized in [Section 2.1](#) and the field verification is summarized in [Section 2.2](#). The field audits performed by CDM are described briefly in [Section 2.3](#) and in detail in the [Attachment](#).

## **2.1 Data Management Verification**

Tetra Tech followed up the initial bin designation versus VV observation query with a series of follow-on queries and conducted manual verification of several randomly selected soil sample records for possible sources of error.

The follow-on queries are summarized in [Section 2.1.1](#) and the manual sample-verifications are summarized in [Section 2.1.2](#).

### **2.1.1 Troy Scribe Database Queries**

In March 2008, the Tetra Tech data manager reviewed the queries that were used to generate the bin designation versus VV observation report ([Table 1](#)) for accuracy. As a cross check, another Tetra Tech programmer recreated the queries and reports from scratch. Both the queries and the report matched the original results. Additional details about the queries are provided in [Appendix A](#). In addition to Tetra Tech's efforts, EPA independently developed a third set of queries. Tetra Tech and EPA's efforts confirmed that the queries used by Tetra Tech to generate the bin designation versus VV were running properly.

### **2.1.2 Manual Verification of Randomly Selected Soil Sample Records**

In April 2008, Tetra Tech manually verified several soil sample records by randomly selecting 10 soil samples in bins A, B1, and B2, as well as all five Bin C samples. Tetra Tech compiled and verified the following information from the Troy Scribe database and the field log books for each sample.

Data verified from the Troy Scribe database -

- Sample number
- Location number
- Parcel number
- Sample date
- LA Bin (A; B1; B2; C)
- LA detected (yes; no)
- LA result qualifier (not detected [ND]; trace [Tr]; less than [<]; no qualifier)
- VV observations
- Samplers initials

Data verified from the field log book –

- Sample number
- Location number
- Parcel number
- Sample date
- VV observations
- Samplers initials

Tetra Tech compared the bin designation for each sample with the VV observations in the log books and with the corresponding VV entries in the Troy Scribe database.

Additionally, Tetra Tech compared VV observations in the log book with the corresponding VV entries in the Troy Scribe database to verify that the data recorded in the GeoXT handheld computers were downloaded correctly to the Troy Scribe database.

Results from the manual verification effort are summarized on [Table 2](#). Additional details are provided in [Appendix A](#).

## 2.2 Field Verification

Before the 2008 field season began, a core team of Tetra Tech field staff received additional training on identification and quantification of VV; with an emphasis on identifying minute vermiculite particles.

During the 2008 field season, Tetra Tech re-inspected 522 use areas (UA) at 100 Troy parcels to confirm the presence of, semi-quantify, and describe the VV in exterior soils. During the re-inspections, Tetra Tech collected 119 soil samples; 114 were from specific use areas (SUA), one was from a building, and four were from common use areas (CUA). This fulfilled the requirements of Record of Modification TFO 7, which modified the sampling protocol to include additional soil samples.

The re-inspection results were recorded in a tabular format on field forms created especially for this activity to minimize field recording time and file transfer time. The GeoXT handheld computers were used to enter new data; for example, new samples were recorded in the GeoXT handheld computers. Relevant information (such as new UAs or 2008 VV observations) was added to the 2007 site sketch. At the end of each day, the sample database coordinator entered the tabulated results into the Troy Scribe database.

After Tetra Tech completed 100 parcel re-inspections, the VV results and descriptions from 2008 were summarized and compared with the results of the VV inspections and descriptions of 2007 for the same UA. A synopsis of Tetra Tech's re-inspection findings is provided in [Table 3](#). Additional details about the re-inspection process are provided in Record of

Modification TFO 8, provided as [Appendix B](#). A spreadsheet detailing the 2007 VV inspection and 2008 VV re-inspection results is included as [Appendix C](#).

## **2.3 CDM Field Audits**

During the 2008 field season, CDM inspected UAs that had been re-inspected by Tetra Tech to ensure that VV was being identified and described in a manner consistent with CDM-LIBBY-06 (Appendix B to the TAPE work plan [[Tetra Tech 2007](#)]). A synopsis of CDM's findings is provided [Table 3](#). CDM's audit reports are provided in the [Attachment](#).

## **3.0 SUMMARY AND CONCLUSION**

In early 2008, DEQ requested that Tetra Tech evaluate the 2007 TAPE data to assess whether laboratory results for LA in soil samples corresponded as expected (based on observations at Libby OU 4) to VV observations recorded in the field log books and in the Troy Scribe database. Tetra Tech conducted an initial query comparing LA results with corresponding VV observations. The expected outcome was that samples with detectable LA would have corresponding recorded field observations of VV; however, the query revealed a poor correlation between VV and detectable LA. DEQ asked Tetra Tech to carry out a series of verification steps to rule out data generation or data management errors as the source of the poor correlation.

Tetra Tech performed a series of data management and field verification steps. In addition, CDM performed field audits to ensure that VV was being identified and described in a manner consistent with SOP CDM-LIBBY-06 (Appendix B to the TAPE work plan [[Tetra Tech 2007](#)]), and EPA audited the on- and off-site laboratories handling the Troy soil samples.

The verification activities performed by Tetra Tech, CDM, and EPA did not reveal any data generation or data management errors that could be responsible for the poor correlation between VV and detectable LA. The results of the laboratory audits are not included in this report.

## **4.0 REFERENCES**

Tetra Tech EM Inc. 2007. "Troy Asbestos Property Evaluation Work Plan." July.

**Table 1: Summary of Initial Query Results – Bin Designation versus Visible Vermiculite Observation**

*PLMVE Results versus Visible Vermiculite*

*All Use Areas Where Samples Where Collected and No Interior Samples*

<i>BIN</i>	<i>VV</i>	<i>Total UA</i>	<i>Total AD</i>
A	No	947	407
A	Yes	49	47
B1	No	528	344
B1	Yes	21	19
B2	No	69	65
B2	Yes	3	3
C	No	4	4
C	Yes	1	1

Notes:

VV = Visible vermiculite noted by field crew during inspection

A single AD number can be associated with more than one bin (if there is more than one sample associated with the parcel)

Bin A = non-detect

Bin B1 = trace (<0.2%)

Bin B2 = trace (0.2% <= B2 < 1%)

Bin C = detection (>=1%)

This report represents 99% of total soil field samples collected.

If a BIN/VV combination is not represented on the report, then the numbers are zero

**Table 2: Summary of Manual Verification Results – Soil Analytical Data versus Visible Vermiculite Observations in Randomly Selected Sample Records**

Bin	Sample ID	Location ID	Parcel ID	Sample Date	Detected? / Result Qualifier	VV - Low	VV – Inter- mediate	VV - High	VV Observations in Log Book	Sampler Initials
A	TT-01787	UA-200638	AD-200491	6/28/2008	No / ND	0	0	0	No VV	MAS
A	TT-00864	UA-200545	AD-200503	6/11/2008	No / ND	0	0	0	No VV	CM / NWS
A	TT-04031	UA-201418	AD-200511	8/28/2007	No / ND	0	0	0	No VV	JHR / DRS
A	TT-00703	UA-200191	AD-200515	6/1/2007	No / ND	0	0	0	Not specified	JS / RR
A	TT-01301	UA-200720	AD-200730	6/18/2007	No / ND	0	0	0	No VV	KEK / MJD
A	TT-03465	UA-201678	AD-201119	8/22/2007	No / ND	0	0	0	No VV	JHR / NTS
A	TT-03737	UA-202127	AD-201125	8/23/2007	No / ND	5	0	0	Yes 5 Low / No 25	DRS / JHR
A	TT-04263	UA-201956	AD-201178	9/24/2007	No / ND	0	0	0	No VV	BRE / JLJ
A	TT-03654	UA-201763	AD-201183	8/22/2007	No / ND	0	0	0	No VV	BRE / JL
A	TT-00588	UA-200258	AD-201185	5/24/2007	No / ND	4	0	4	Vermiculite observed <sup>a</sup>	MEB / SLW
B1	TT-00507	UA-200136	AD-200253	5/24/2007	Yes / Tr	0	0	0	No VV	KS / MU
B1	TT-02394	UA-201182	AD-200349	7/19/2007	Yes / Tr	0	0	0	No VV	JPA / MU
B1	TT-03598	UA-201869	AD-200378	9/17/2007	Yes / Tr	0	0	0	No VV	BRE / JLJ
B1	TT-03585	UA-201862	AD-200394	9/14/2007	Yes / Tr	0	0	0	No VV	JPA / MAS
B1	TT-00746	UA-200155	AD-200405	6/1/2007	Yes / Tr	0	0	0	No VV	NTS
B1	TT-01389	UA-200784	AD-200407	6/18/2007	Yes / Tr	0	0	0	No VV	MU / NS
B1	TT-00183	UA-200038	AD-200610	5/10/2007	Yes / Tr	0	0	0	No VV	JHR / SE
B1	TT-04035	UA-201518	AD-200658	8/29/2007	Yes / Tr	0	0	0	No VV	BRE / JLJ
B1	TT-04254	UA-201950	AD-200727	9/24/2007	Yes / Tr	0	0	0	No VV	BRE / JLJ
B1	TT-02654	UA-201331	AD-201495	7/24/2007	Yes / Tr	0	0	0	No VV	JC / JPA
B2	TT-02404	UA-201203	AD-200344	7/17/2007	Y / <	0	0	0	No VV	BRE / CM
B2	TT-03040	UA-201682	AD-200652	8/7/2007	Y / <	0	2	0	Yes 2 Interm / No 28	CRR / SSS
B2	TT-02986	UA-201423	AD-200665	8/6/2007	Y / <	0	0	0	No VV	DRS / MD
B2	TT-03604	UA-201875	AD-201021	9/17/2007	Y / <	0	0	0	No VV	BRE / JLJ
B2	TT-02237	UA-201106	AD-201080	7/13/2007	Y / <	0	0	0	No VV	BRE / CM
B2	TT-02998	UA-201430	AD-201098	8/6/2007	Y / <	0	0	0	No VV	DRS / MU

**Table 2: Summary of Manual Verification Results – Soil Analytical Data versus Visible Vermiculite Observations in Randomly Selected Sample Records (Continued)**

Bin	Sample ID	Location ID	Parcel ID	Sample Date	Detected? / Result Qualifier	VV - Low	VV – Inter- mediate	VV - High	VV Observations in Log Book	Sampler Initials
B2	TT-00568	UA-200266	AD-201104	5/25/2007	Y / <	0	0	0	Not specified	MJD / SSS
B2	TT-03642	UA-201752	AD-201106	8/22/2007	Y / <	0	0	0	No VV	BRE / JL
B2	TT-01346	UA-200691	AD-201145	6/14/2007	Y / <	0	0	0	No VV	KEK / MJD
B2	TT-04135	UA-201826	AD-201191	9/11/2007	Y / <	0	0	0	No VV	BRE / JPA
C	TT-03488	UA-202031	AD-200009	8/23/2007	Y / None	0	0	0	No VV	JL
C	TT-00449	UA-200051	AD-200237	5/16/2007	Y / None	0	0	0	No VV <sup>b</sup>	MJD / NWS
C	TT-01384	UA-200770	AD-200480	6/15/2007	Y / None	0	0	30	Yes 30 High	MU / NS
C	TT-04306	UA-201976	AD-201039	9/26/2007	Y / None	0	0	0	No VV	BRE / JLJ
C	TT-03471	UA-202024	AD-201123	8/22/2007	Y / None	0	0	0	No VV	JHR / JLJ

Notes:

- a Log book states "vermiculite highly observed in the southern portion of the driveway," but does not quantify or qualify what was seen.
- b Resident informed sampling crew that her husband used to drive truck for W.R. Grace. Area sampled is reportedly a former garden.

VV was observed by samplers but LA was not detected in the sample (Bin A designation).

LA was detected in the sample (Bin B1, B2, or C designation) but VV was not observed by samplers.

**Table 3: Summary of Visible Vermiculite Re-inspection Observations  
– 2007 versus 2008**

Number of Use Areas Where:	Tetra Tech TFO 8	CDM First Event
Greater than 50% of the inspection points initially reported as Intermediate or High were re-evaluated to None or Low	17	1
Greater than 50% of the inspection points initially reported as None or Low were re-evaluated to Intermediate or High	4	1
All inspection points initially reported as None were re-evaluated to at least one inspection point in High <sup>1</sup>	96	6
At least one inspection point was reported as either Low, Intermediate or High and re-evaluated to all inspection points in None <sup>2</sup>	32	13

Notes:

<sup>1</sup> Based on casual observation of the results, the majority of these use areas (UA) were re-evaluated to fewer than 10 inspection points (primarily one or two only) in the Low category in 2008. The analytical results for the majority were in the A or B1 bins.

<sup>2</sup> Based on casual observation of the results, the majority of the UAs originally had fewer than 10 inspection points (primarily one or two only) identified as Low. Analytical results are not commonly available, as most of these were specific use areas with visible vermiculite in 2007 and thus were not sampled. However, samples were collected in 2008 as part of the re-inspection.



## **APPENDIX A**

### **Memorandum Summarizing Follow-on Troy Scribe Database Queries and Manual Verification of Randomly Selected Soil Sample Records**

## **1.0 OBJECTIVE**

Tetra Tech evaluated the Troy Asbestos Property Evaluation (TAPE) 2007 field season data to determine whether laboratory results for Libby Amphibole (LA) in soil samples correspond as expected to visible vermiculite (VV) observations recorded in the field log books and in the TAPE Scribe database (Scribe). The Scribe database was electronically populated from the GeoXT handheld personal digital assistants (PDAs) used in the field. An additional objective was to identify source(s) of any procedural errors.

The expected outcome should show samples with detectable LA (based on laboratory analysis) as having VV (based on recorded field observations); however, a comparison of the analytical data to the VV observations recorded in Scribe revealed that VV was predominantly not observed by the field team when the samples with detectable LA were collected. The Montana Department of Environmental Quality (DEQ) asked Tetra Tech to perform verification of selected field data to identify the source of the unexpected outcome.

## **2.0 PROCEDURE**

TAPE analytical data follows the Libby operable unit protocols in that soil samples are assigned to one of four bins on the basis of laboratory results for LA. Bin A includes samples in which no LA was detected. Bin B1 includes samples with detectable but less than 0.2 percent LA by weight. Bin B2 includes samples found to contain 0.2 percent but less than 1 percent LA by weight. Bin C includes samples with 1 percent or greater LA by weight.

To determine whether samples with detectable LA (based on laboratory analysis) were observed and recorded as having VV (based on field observations), Tetra Tech conducted a series of Scribe database queries as well as manual verification of several randomly-selected samples from each bin.

The database query process is summarized in Section 2.1 and the manual sample-verification process is summarized in Section 2.2.

## **2.1 Scribe Queries**

At the request of the DEQ, Tetra Tech conducted an initial query in March 2008 to determine whether bin designations correspond with expected VV observations. Subsequently, several sets of additional queries were developed by Tetra Tech and EPA to further verify data integrity. Two Tetra Tech programmers independently developed the same set of queries while EPA developed a third set. Database query findings are described in Section 3.1.

## **2.2 Manual Verification of Randomly-Selected Samples**

In April 2008, Tetra Tech conducted manual verification of randomly-selected soil samples. Ten randomly-selected soil samples from each bin (A, B1, and B2) underwent the verification process described below. In addition, all five Bin C samples were verified. For each sample, Tetra Tech compiled and verified the following information from Scribe and the field log books and populated the table that follows Section 4.0.

Scribe -

- Sample number
- Location number
- Parcel number
- Sample date
- LA Bin (A; B1; B2; C)
- LA detected (yes; no)
- LA result qualifier (not detected [ND]; trace [Tr]; less than [<]; no qualifier)
- VV observations
- Sampler(s) initials

Field log book -

- Sample number
- Location number
- Parcel number
- Sample date
- VV observations
- Sampler(s) initials

Tetra Tech compared the bin designation for each sample to the VV observations in the log books and to the corresponding VV entries in Scribe.

Additionally, to verify that the data recorded in the GeoXT handheld PDAs were downloaded correctly to Scribe, Tetra Tech compared VV observations in the log book to the corresponding VV entries in Scribe. Also, as part of the verification procedure, TAPE GeoXT protocols developed in the summer of 2007 were reviewed to identify whether errors in VV observation accuracy could have occurred. In July 2007, the field team found that the GeoXT PDAs would unknowingly swap use areas; once discovered, the sample database coordinator had to manually reenter a large number of field entries. As part of the verification procedure summarized in this memorandum, Tetra Tech attempted to review the original GeoXT screens to identify potential VV errors; however, the original screens had been replaced as the sample database coordinator fixed the errors, therefore, the earlier screens were impossible to trace.

## **3.0 FINDINGS**

Results of the database queries are summarized in Section 3.1. Results of the manual sample-verification process are summarized in Section 3.2.

### **3.1 *Scribe Queries***

The database query comparing bin designations to VV observations indicated that the majority of samples with laboratory detectable LA were not observed and recorded as having VV from field observations.

Subsequent queries developed by Tetra Tech and EPA to check data integrity and verify the initial query results, however, did not reveal any significant integrity issues with the data set. A few minor discrepancies were discovered, but none significantly altered the result counts.

### **3.2 *Manual Verification of Randomly-Selected Samples***

Findings from the comparison of bin designation verses log book VV observations are summarized in Section 3.2.1 and on Table 1. Findings from the comparison of bin designation

verses VV entries in Scribe are summarized in Section 3.2.2. Findings from the comparison of VV entries in Scribe verses log book observations are described in Section 3.2.3.

### **3.2.1 Bin Designation Verses Log Book**

**Bin A.** For the 10 randomly-selected Bin A samples (no LA detected), log book entries for 7 indicate no VV. Log book entries for 2 samples state vermiculite was observed (one entry indicates vermiculite was observed and the other specifies low VV in 5 aliquots and no VV in 25 aliquots). The log book entry for the remaining Bin A sample does not specify whether VV was observed (see table for details).

**Bin B1.** For the 10 randomly-selected Bin B1 samples (less than 0.2 percent LA), log book entries for all 10 state no VV was observed (see table for details).

**Bin B2.** For the 10 randomly-selected Bin B2 samples (0.2 percent but less than 1 percent LA), log book entries for 8 samples indicate no VV was observed. The log book entry for 1 sample specifies intermediate VV in 2 aliquots and no VV in the remaining 28 aliquots. The log book entry for the remaining sample does not specify whether VV was observed (see table for details).

**Bin C.** For the 5 Bin C samples (greater than or equal to 1 percent LA), log book entries for 4 indicate no VV was observed. The log book entry for 1 sample indicates high VV in all 30 aliquots (see table for details).

### **3.2.2 Bin Designation Verses Scribe**

**Bin A.** For 8 of the 10 randomly-selected Bin A samples (no LA detected), Scribe entries for VV\_Low, VV\_Intermediate, and VV\_High are 0 (indicating no VV was observed). For 1 Bin A sample, the Scribe entry for VV\_Low is 5, and for VV\_Intermediate and VV\_High are 0. For the remaining Bin A sample, Scribe entries for VV-Low and VV\_High are 4, and for VV\_Intermediate is 0 (see table for details).

**Bin B1.** For the 10 randomly-selected Bin B1 samples (detectable but less than 0.2 percent LA), Scribe entries for VV\_Low, VV\_Intermediate, and VV\_High are 0 (see table for details).

**Bin B2.** For the 10 randomly-selected Bin B2 samples (0.2 percent but less than 1 percent LA), Scribe entries for VV\_Low, VV\_Intermediate, and VV\_High for 9 are 0. Scribe entries for the remaining sample are 2 for VV\_Intermediate and 0 for VV\_Low and VV\_High (see table for details).

**Bin C.** For 4 of the 5 Bin C samples (greater than or equal to 1 percent LA), Scribe entries for VV\_Low, VV\_Intermediate, and VV\_High are 0. For the remaining Bin C sample, Scribe entries for VV\_Low, VV\_Intermediate, and VV\_High are 0, 0, and 30 respectively (see table for details).

### **3.2.3 Scribe Verses Log Book**

The comparison of the VV entries in Scribe to the VV observations in the log books revealed no significant discrepancies. There are two samples (TT-00703 and TT-00568) for which all VV entries in Scribe are 0 while the logbook does not mention VV (see table for details).

## **4.0 CONCLUSION**

Based on this verification process, it appears that the majority of the samples with laboratory detectable LA did not have recorded VV observations. This outcome is attributed to unobserved and unrecorded field observations of VV and not the result of Scribe data loading or query errors.

**TABLE 1: SUMMARY OF COMPARISON OF VISIBLE VERMICULITE AND LABORATORY ANALYTICAL RESULTS FOR SOILS IN RANDOMLY-SELECTED TAPE PROPERTIES**

Bin	Sample ID	Location ID	Parcel ID	Sample Date	Detected? / Result Qualifier	VV - Low	VV – Inter- mediate	VV - High	VV Observations in Log Book	Sampler(s) Initials
A	TT-01787	UA-200638	AD-200491	6/28/2008	No / ND	0	0	0	No VV	MAS
A	TT-00864	UA-200545	AD-200503	6/11/2008	No / ND	0	0	0	No VV	CM / NWS
A	TT-04031	UA-201418	AD-200511	8/28/2007	No / ND	0	0	0	No VV	JHR / DRS
A	TT-00703	UA-200191	AD-200515	6/1/2007	No / ND	0	0	0	Not specified	JS / RR
A	TT-01301	UA-200720	AD-200730	6/18/2007	No / ND	0	0	0	No VV	KEK / MJD
A	TT-03465	UA-201678	AD-201119	8/22/2007	No / ND	0	0	0	No VV	JHR / NTS
A	TT-03737	UA-202127	AD-201125	8/23/2007	No / ND	5	0	0	Yes 5 Low / No 25	DRS / JHR
A	TT-04263	UA-201956	AD-201178	9/24/2007	No / ND	0	0	0	No VV	BRE / JLJ
A	TT-03654	UA-201763	AD-201183	8/22/2007	No / ND	0	0	0	No VV	BRE / JL
A	TT-00588	UA-200258	AD-201185	5/24/2007	No / ND	4	0	4	Vermiculite observed <sup>a</sup>	MEB / SLW
B1	TT-00507	UA-200136	AD-200253	5/24/2007	Yes / Tr	0	0	0	No VV	KS / MU
B1	TT-02394	UA-201182	AD-200349	7/19/2007	Yes / Tr	0	0	0	No VV	JPA / MU
B1	TT-03598	UA-201869	AD-200378	9/17/2007	Yes / Tr	0	0	0	No VV	BRE / JLJ
B1	TT-03585	UA-201862	AD-200394	9/14/2007	Yes / Tr	0	0	0	No VV	JPA / MAS
B1	TT-00746	UA-200155	AD-200405	6/1/2007	Yes / Tr	0	0	0	No VV	NTS
B1	TT-01389	UA-200784	AD-200407	6/18/2007	Yes / Tr	0	0	0	No VV	MU / NS
B1	TT-00183	UA-200038	AD-200610	5/10/2007	Yes / Tr	0	0	0	No VV	JHR / SE
B1	TT-04035	UA-201518	AD-200658	8/29/2007	Yes / Tr	0	0	0	No VV	BRE / JLJ
B1	TT-04254	UA-201950	AD-200727	9/24/2007	Yes / Tr	0	0	0	No VV	BRE / JLJ
B1	TT-02654	UA-201331	AD-201495	7/24/2007	Yes / Tr	0	0	0	No VV	JC / JPA
B2	TT-02404	UA-201203	AD-200344	7/17/2007	Y / <	0	0	0	No VV	BRE / CM
B2	TT-03040	UA-201682	AD-200652	8/7/2007	Y / <	0	2	0	Yes 2 Interm / No 28	CRR / SSS
B2	TT-02986	UA-201423	AD-200665	8/6/2007	Y / <	0	0	0	No VV	DRS / MD
B2	TT-03604	UA-201875	AD-201021	9/17/2007	Y / <	0	0	0	No VV	BRE / JLJ
B2	TT-02237	UA-201106	AD-201080	7/13/2007	Y / <	0	0	0	No VV	BRE / CM
B2	TT-02998	UA-201430	AD-201098	8/6/2007	Y / <	0	0	0	No VV	DRS / MU

**TABLE 1: SUMMARY OF COMPARISON OF VISIBLE VERMICULITE AND LABORATORY ANALYTICAL RESULTS FOR SOILS IN RANDOMLY-SELECTED TAPE PROPERTIES (Cont.)**

Bin	Sample ID	Location ID	Parcel ID	Sample Date	Detected? / Result Qualifier	VV - Low	VV – Inter- mediate	VV - High	VV Observations in Log Book	Sampler(s) Initials
B2	TT-00568	UA-200266	AD-201104	5/25/2007	Y / <	0	0	0	Not specified	MJD / SSS
B2	TT-03642	UA-201752	AD-201106	8/22/2007	Y / <	0	0	0	No VV	BRE / JL
B2	TT-01346	UA-200691	AD-201145	6/14/2007	Y / <	0	0	0	No VV	KEK / MJD
B2	TT-04135	UA-201826	AD-201191	9/11/2007	Y / <	0	0	0	No VV	BRE / JPA
C	TT-03488	UA-202031	AD-200009	8/23/2007	Y / None	0	0	0	No VV	JL
C	TT-00449	UA-200051	AD-200237	5/16/2007	Y / None	0	0	0	No VV <sup>b</sup>	MJD / NWS
C	TT-01384	UA-200770	AD-200480	6/15/2007	Y / None	0	0	30	Yes 30 High	MU / NS
C	TT-04306	UA-201976	AD-201039	9/26/2007	Y / None	0	0	0	No VV	BRE / JLJ
C	TT-03471	UA-202024	AD-201123	8/22/2007	Y / None	0	0	0	No VV	JHR / JLJ

Notes:

- a Log book states "vermiculite highly observed in the southern portion of the driveway," but doesn't quantify or qualify what was seen.
- b Resident informed sampling crew that her husband used to drive truck for W.R. Grace. Area sampled is reportedly a former garden.

VV was observed by samplers but LA was not detected in the sample (Bin A designation).

LA was detected in the sample (Bin B1, B2, or C designation) but VV was not observed by samplers.



## **APPENDIX B**

### **Record of Modification TFO 8 to the TAPE Work Plan – Confirmation and Descriptions of Visible Vermiculite in Use Areas and Sampling of Specific Use Areas**



## Record of Modification

to the

Troy Sampling and Quality Assurance Project Plan  
Field Activities

TFO - 00008 (numbered by Data Manager)

**Instructions to Requester:** Fax to contacts at bottom of form for review and approval.

File approved copy with Data Manager at the Troy Field Office (TFO).

Data Manager will maintain legible copies in a binder that can be accessed by TFO personnel.

If Modification is Temporary for a Single Parcel, Data Manager will scan this and place in parcel's electronic file.

**Project Work Plan/QAPP (check one):**

☒ Troy Asbestos Property Evaluation Work Plan

☐ Other (Title and approval date): \_\_\_\_\_

**Site-Specific Guidance/SOP (Number and Revision No.) (check one):**

☐ CDM-LIBBY-10, Current Revision (30-point dust sample collection)

☐ CDM-LIBBY-05, Current Revision (30-point soil sample collection)

☐ CDM-LIBBY-06, Current Revision (Visible Vermiculite Estimation)

**Other (Title, Number/Revision):** \_\_\_\_\_

Requester: Catherine LeCours

Title: Project Manager

Company: Montana DEQ

Date: 04/29/2008

Description of Modification (attach additional sheets if necessary; state section and page numbers of each document that are affected by the proposed modification): See following pages – revisit of select parcels from the 2007 inspections for confirmation and description of visible vermiculite in use areas and sampling of use areas

Field logbook and page number where Modification is documented (or attach associated correspondence):  
\_\_\_\_\_  
\_\_\_\_\_

Potential Implications of Modification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Duration of Modification (check one):**

☐ Temporary

Date(s): \_\_\_\_\_

AD- \_\_\_\_\_

BD(s)- \_\_\_\_\_

TT(s)- \_\_\_\_\_

☒ Permanent (Proposed Text Modification Section) Effective Date: May 8, 2008

Proposed Text Modifications in Associated Document (attach additional sheets if necessary):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Data Quality Indicator (circle one) – Please reference definitions on reverse side for direction on selecting data quality indicators:

Not Applicable

Reject

Low Bias

Estimate

High Bias

No Bias

Technical Review and Approval: Catherine LeCours  
(DEQ Project Manager or designate)

Date: May 8, 2008

EPA Review and Approval: Patricia L. Hermann  
(USEPA RPM or designate)

Date: May 13, 2008

**RECORD OF MODIFICATION  
TFO-00008**

**TO THE**

**TROY ASBESTOS PROPERTY EVALUATION WORK PLAN**

**CONFIRMATION AND DESCRIPTION OF VISIBLE VERMICULITE IN USE AREAS  
AND  
SAMPLING OF SPECIFIC USE AREAS  
Troy Operable Unit Number 7  
of the Libby Asbestos Superfund Site**

Prepared for:

**MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**Remediation Division**  
P.O. Box 200901  
Helena, Montana 59620

Contract Number 402026  
Task Order Number 3 & 20

Prepared by:

**TETRA TECH EM INC.**  
Power Block Building, Suite 612  
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Helena, Montana 59601  
(406) 442-5588

May 13, 2008

# CONFIRMATION AND DESCRIPTION OF VISIBLE VERMICULITE IN USE AREAS AND SAMPLING OF SPECIFIC USE AREAS

As part of the Troy Asbestos Property Evaluation (TAPE) project 2008 field season, Tetra Tech will complete an inspection and/or collect a soil sample for approximately 462 Troy Operable Unit 7 (OU7) parcels that contain approximately 1,743 Use Areas for confirmation, semi-quantification, and description of visible vermiculite in the exterior soils and collection of soil samples from Specific Use Areas (SUA).

**Table 1** provides the number of OU7 parcels and Use Areas to be inspected and sampled. The primary reasons for these inspections and additional sampling will be to address:

- (a) the poor correlation between the PLM-VE analytical results and the visible vermiculite observations recorded at Use Areas in OU7 through the confirmation and semi-quantification of the presence or absence of visible vermiculite in Use Areas inspected in 2007,
- (b) the need for soil samples from all SUAs as documented in Record of Modification TFO-00007 through the collection of samples from SUAs not previously sampled, and
- (c) the accurate description of visible vermiculite observed and reported as “store purchased potting soil” in order to confirm the relationship between vermiculite observed in “potting soil” and analytical results in OU7 that may differ from that relationship as observed in OU4 through documentation of such descriptions during the confirmation and sampling identified above in items (a) and (b).

**TABLE 1: Number of Troy Parcels and Use Areas to be Inspected and Sampled**

<b>Objectives</b>	<b>Number of Parcels</b>	<b>Number of Use Areas (excluding Non Use Areas)</b>
<b>One:</b> Confirm and semi-quantify the presence or absence of visible vermiculite in Use Areas [item (a) above] and accurately describe the visible vermiculite if present [item (c) above]	462	1,743
<b>Two:</b> Collect soil samples from SUAs not sampled in 2007 [item (b) above]	115	144
<b>Total Unique Numbers (not additive; some parcels/Use Areas under both objectives)</b>	<b>462</b>	<b>1,743</b>

Two objectives were developed to determine the types and numbers of parcels and Use Areas to inspect and sample.

**Objective One: Confirm and semi-quantify the presence or absence of visible vermiculite in Use Areas and accurately describe the visible vermiculite if present.** The number of parcels to inspect was derived by subtracting the sum of the parcels that would be revisited because they meet one of the emergency removal criteria<sup>1</sup> requiring a pre-design inspection (PDI) plus the parcels with only Non Use Areas (essentially undeveloped properties) from 535, the total number of parcels inspected during 2007. The equation below provides a mathematical expression for this determination:

$$\# \text{ Parcels for Inspection} = 535 - (\text{Parcels meeting removal criteria}^1 + \text{Parcels with only Non Use Areas})$$

**Objective Two: Collect soil samples from SUAs sampled in 2007.** Based on preliminary data from 2007, DEQ, in consultation with EPA, modified the sampling protocol to include a soil sample from all SUAs, regardless of presence or absence of visible vermiculite. (Please see Record of Modification TFO-00007.) Therefore, DEQ has directed Tetra Tech to collect soil samples from SUAs not sampled in 2007.

Tetra Tech's approach for completing these objectives includes training six Tetra Tech TAPE field staff plus three TAPE managers (the Field Team Leader and two quality assurance [QA] managers) to accurately recognize, identify and semi-quantify visible vermiculite in exterior soils, if present. These nine Tetra Tech individuals will be trained by two experienced CDM field persons for approximately four days and will be known as Tetra Tech's Visible Vermiculite (VV) Core team members. The six TAPE field staff will be in the field more than 50 percent of the field season and four of the six will be working on TAPE inspections 100 percent of the time. The four days of training inspections will provide the opportunity for each Tetra Tech VV Core team member to work side by side with CDM, asking questions and learning the skills necessary to identify and semi-quantitatively assess the amount visible vermiculite present. On Day 1, the nine Tetra Tech VV Core team members will meet with CDM staff for up to two hours to go over the basics and get ready for first site visit. The group will be divided into two teams with one CDM person for each team. Each team will visit two to three Troy parcels on Day 1. Days 2, 3, and 4 will have similar schedules with each of the two teams visiting two to three Troy parcels per day depending on the size of parcels and the number of Use Areas. Tetra Tech will identify the training parcels, in consultation with CDM, and schedule the inspections with the property owners. The Troy parcels visited during the four training days will include a majority of parcels where visible vermiculite was recorded during the 2007 TAPE inspections. There will be a mixture of parcels with visible vermiculite at multiple locations and some with visible vermiculite only in distinct, small areas. At least

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<sup>1</sup> Concentration of Libby asbestos in soil greater than or equal to 1 percent of sample volume.

two Troy parcels (one for each team) will have no exterior triggers for cleanup. The 2007 inspection and analytical results for these Troy parcels will not be provided to the Tetra Tech VV Core team members prior to the training inspections so that there will be no preconceived ideas or biases. Later during the 2008 field season, qualified CDM staff may periodically spend one or two days with the TAPE inspection teams to ensure the TAPE teams are identifying and documenting visible vermiculite consistent with CDM-LIBBY-06 (Appendix B to the TAPE Work Plan). A TAPE field team schedule will be provided to Volpe and CDM so audits may be planned accordingly.

After Tetra Tech completes approximately 100 parcel inspections for Objective One, the visible vermiculite results and descriptions from 2008 will be summarized and compared to the results of the visible vermiculite inspections and descriptions of 2007 from those same Use Areas. The results' comparisons will be reported to the DEQ and EPA and a meeting will be scheduled with all parties to determine the necessity of continuing with the remaining Objective One inspections. Tetra Tech will inspect all parcels identified for Objective Two, and complete all activities in Objective One for those parcels, regardless of the results of the comparison described above. Tetra Tech will continue to conduct the 2008 TAPE inspections for Troy parcels, including inspections of Use Areas for visible vermiculite and the description of such vermiculite, as described in the TAPE Work Plan (Tetra Tech, July 2007) as modified. Tetra Tech will bring on additional staff, if needed, to complete the necessary number of scheduled 2008 TAPE inspections, plus the visible vermiculite inspections and sampling of Use Areas. Tetra Tech will ensure that all new 2008 TAPE inspection teams have at least one Tetra Tech VV Core team member to verify the presence or absence of visual vermiculite and describe the vermiculite in the Use Area soils. Tetra Tech believes that all scheduled TAPE 2008 inspections and these additional inspections and sampling will be completed on time and within the estimated 2008 budget because of the following reasons and protocol modifications to Tetra Tech's 2008 field efforts:

1. Tetra Tech will staff the 2008 field team with approximately 60 percent (6 out of 10) dedicated and season-long field team members who will reside in Troy for the entire field season. Dedicated field staff will provide more experience and consistency for making visual field determinations, such as the identification of visible vermiculite in Use Area soils.
2. TAPE inspections during 2007 typically averaged 2 to 4 hours to complete (depending on size of parcel, number of inspectors [2 or 3], and number of buildings). Throughout the 2007 summer field season there were many shorter periods of time (30 to 90 minutes) when field crews did not have a scheduled TAPE inspection, but were able to "fit in" a less labor-intensive exterior only TAPE inspection (for example, open space, undeveloped properties) or re-visit parcels due to protocol and data collection modifications. The majority of these smaller, easily scheduled, short, fill-in efforts were completed during 2007. Completing the activities for Objectives One and Two may take from approximately 20 minutes up to a few hours (depending on size of parcel, and travel time to and from the site) and will be easy to fit in and complete on a regular fill-in basis.

Use Areas, except Non Use Areas, will be inspected for visible vermiculite in the soil and surface materials, semi-quantitatively assessed, and sampled (if necessary). For each inspection, the field team will bring along: (1) copies of the field sketches from 2007; (2) field forms for recording inspection data; and (3) field equipment to conduct the visible vermiculite inspection and to collect the soil samples.

Use Areas will be inspected and sampled using the same overriding procedures as the 2007 TAPE inspections, as modified, except a hand lens or magnifying glass will be used to better observe and identify small pieces of vermiculite in the Use Area soils or surface materials. Each soil aliquot will be examined for the presence of visible vermiculite and the amount of vermiculite will be semi-quantified as none, low, intermediate, or high using the procedures defined in CDM-LIBBY-06 (Appendix B to the TAPE Work Plan) and accurately described. The Use Area will be closely inspected for the presence of visible vermiculite, but the soil aliquot will not be placed in a plastic bag or bowl for compositing or sampling, unless necessary to meet Objective Two. After careful inspection for visible vermiculite, each soil aliquot will be returned to its approximate original location.

To minimize field recording time and file transfer time, the inspection results (none, low, intermediate, high, description, and sample identification number) will be recorded in a tabular format on field forms created specifically for these activities. The PDAs will not be used to enter data and GPS locations will not be collected for these inspections. At the end of each day that an inspection is performed, the tabulated results will be entered into Scribe by the sample database coordinator. A second inspection property sketch will be prepared for TAPE parcels that have Use Area changes (including Use Areas that no longer exist), different Use Area boundaries, or if visible vermiculite was observed from new or different locations during the inspection. If the parcel Use Areas are identical to those shown on the original 2007 TAPE inspection sketch and no new visible vermiculite is observed, only the notes and details of the inspection will be recorded. The 2008 inspection field team may elect to photo-document specific conditions or changes to the parcel, especially if visible vermiculite is found during the inspection. All new photographs will be recorded on the field forms, downloaded and saved into the Troy parcel electronic file. All inspection field forms will also be scanned and saved into the Troy parcel electronic file. Tetra Tech will manage the 2008 inspection data and any changes to the 2007 inspection data for visible vermiculite and sampling according to the approved TAPE Data Management Plan.

## **APPENDIX C**

### **Visible Vermiculite Inspection and Corresponding Re-Inspection Results**



PropertyID	Location_2007_Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-200038	UA-200271	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	Unexpanded/Potting soil mix Homeowner purchase	29	1	0	0	Unexpanded unknown source	A	6/16/2008	
AD-200038	UA-200272	L - Overgrown areas	L - Overgrown areas	24	6	0	0	Unexpanded/Potting soil mix Homeowner purchase	30	0	0	0	N/A	B1	6/16/2008	
AD-200038	UA-200273	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	Unexpanded/Potting soil mix Homeowner purchase	30	0	0	0	N/A	A	6/16/2008	
AD-200038	UA-200274	S - Flowerbed	S - Flowerbed	2	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	5	5	0	0	Unexpanded unknown source		6/16/2008	
AD-200041	UA-200328	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	7/23/2008	
AD-200041	UA-200329	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/23/2008	
AD-200041	UA-200330	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/23/2008	
AD-200041	UA-200331	S - Flowerbed	S - Flowerbed	20	0	0	0		30	0	0	0	N/A	A	7/23/2008	
AD-200041	UA-200332	L - Maintained or mowed fields	L - Maintained or mowed fields	30	0	0	0		30	0	0	0	N/A	A	7/23/2008	
AD-200041	UA-200333	L - Maintained or mowed fields	L - Maintained or mowed fields	27	0	0	3	Unexpanded	30	0	0	0	N/A	A	7/23/2008	
AD-200041	UA-200335	C - Former garden	C - Former garden	0	0	0	0		20	0	0	0	N/A		7/23/2008	Not sampled; former garden, no reasoning provided
AD-200041	UA-200336	S - Flowerbed	S - Flowerbed	10	0	0	0		11	0	0	0	N/A	B1	7/23/2008	
AD-200043	UA-201739	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/10/2008	
AD-200043	UA-201740	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/10/2008	
AD-200043	UA-201741	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	20	10	0	0	Unexpanded/Potting soil mix Homeowner purchase	B1	7/10/2008	
AD-200043	UA-201742	L - Maintained or mowed fields	L - Maintained or mowed fields	30	0	0	0	N/A	30	0	0	0	N/A	A	7/10/2008	
AD-200043	UA-201743	S - Flower pot	S - Flower pot	1	8	0	0	Unexpanded/Potting soil mix Homeowner purchase	10	1	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/10/2008	
AD-200052	UA-201154	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/17/2008	
AD-200052	UA-201155	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/17/2008	
AD-200052	UA-201156	C - Former garden	C - Former garden	29	1	0	0	Unexpanded	30	0	0	0	N/A	A	7/17/2008	
AD-200052	UA-201157	L - Underneath porches or decks	L - Underneath porches or decks	12	0	0	0		15	0	0	0	N/A	A	7/17/2008	
AD-200052	UA-201159	C - Former flowerbed	C - Former flowerbed	11	1	0	0	Unexpanded	5	0	0	0	N/A	A	7/17/2008	
AD-200057	UA-200682	C - Yard (front, back, side)	C - Yard (front, back, side)	27	2	1	0	Unexpanded/Potting soil mix Homeowner purchase	24	5	1	0	Unexpanded	A	5/21/2008	
AD-200057	UA-200683	S - Flowerbed	S - Flowerbed	0	9	1	0	Unexpanded/Potting soil mix Homeowner purchase	14	12	4	0	Expanded Leaking from Building		5/21/2008	
AD-200057	UA-200684	S - Flowerbed	S - Flowerbed	0	12	4	14	Unexpanded/Potting soil mix Homeowner purchase	24	3	3	0	Unexpanded		5/21/2008	
AD-200057	UA-200685	C - Former garden	C - Former garden	5	14	6	5	Unexpanded/Potting soil mix Homeowner purchase	2	21	7	0	Unexpanded	B2	5/21/2008	
AD-200057	UA-200686	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	5/21/2008	
AD-200057	UA-200687	S - Flower pot	S - Flower pot	30	0	0	0		5	0	0	0	N/A	A	5/21/2008	
AD-200057	UA-200688	S - Stockpile	S - Stockpile	30	0	0	0		28	2	0	0	Unexpanded	A	5/21/2008	
AD-200061	UA-200689	C - Yard (front, back, side)	C - Yard (front, back, side)	29	1	0	0	Unexpanded	30	0	0	0	N/A	A	5/20/2008	
AD-200061	UA-200690	C - Former flowerbed	C - Former flowerbed	8	2	0	0	Unexpanded	30	0	0	0	N/A	A	5/20/2008	
AD-200141	UA-201043	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		28	2	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/10/2008	
AD-200141	UA-201044	S - Flowerbed	S - Flowerbed	30	0	0	0		9	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/10/2008	
AD-200141	UA-201045	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	7/10/2008	
AD-200143	UA-200933	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/18/2008	
AD-200143	UA-200934	S - Garden	S - Garden	30	0	0	0		10	0	0	0	N/A	A	7/18/2008	
AD-200143	UA-200935	S - Flowerbed	S - Flowerbed	30	0	0	0		10	0	0	0	N/A	A	7/18/2008	
AD-200143	UA-200936	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	7/18/2008	
AD-200143	UA-200938	S - Flower pot	S - Flower pot	0	0	6	6	Unexpanded/Potting soil mix Homeowner purchase	0	5	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/18/2008	
AD-200165	UA-201136	C - Yard (front, back, side)	C - Yard (front, back, side)	29	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	24	6	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	5/22/2008	
AD-200165	UA-201137	S - Driveway (unpaved)	S - Driveway (unpaved)	10	0	0	0		30	0	0	0	N/A	B1	5/22/2008	
AD-200165	UA-201138	S - Flowerbed	S - Flowerbed	25	5	0	0	Unexpanded/Potting soil mix Homeowner purchase	24	5	1	0	Unexpanded/Potting soil mix Homeowner purchase	A	5/22/2008	
AD-200165	UA-201139	S - Garden	S - Garden	0	5	0	0	Unexpanded/Potting soil mix Homeowner purchase	12	18	0	0	Unexpanded/Potting soil mix Homeowner purchase		5/22/2008	
AD-200165	UA-201140	S - Flower pot	S - Flower pot	0	6	0	0	Unexpanded/Potting soil mix Homeowner purchase	5	0	0	0	N/A		5/22/2008	
AD-200177	UA-201966	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/9/2008	
AD-200177	UA-201967	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/9/2008	

PropertyID	Location_2007_Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-200177	UA-201968	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	20	0	0	0	N/A	A	7/9/2008	
AD-200177	UA-201969	S - Flower pot	S - Flower pot	5	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	7	1	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/9/2008	
AD-200210	UA-201460	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	6/25/2008	
AD-200210	UA-201461	L - Maintained or mowed fields	L - Maintained or mowed fields	30	0	0	0	N/A	30	0	0	0	N/A	A	6/25/2008	
AD-200210	UA-201582	S - Flower pot	S - Flower pot	0	41	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	21	0	0	Unexpanded/Potting soil mix Homeowner purchase		6/25/2008	
AD-200213	UA-201870	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	A	6/16/2008	
AD-200213	UA-201871	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	6/16/2008	
AD-200213	UA-201872	S - Garden	S - Garden	15	0	0	0	N/A	26	4	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	6/16/2008	
AD-200213	UA-201873	S - Flower pot	S - Flower pot	8	2	0	0	Unexpanded/Potting soil mix Homeowner purchase	23	5	2	0	Unexpanded/Potting soil mix Homeowner purchase		6/16/2008	
AD-200250	UA-201563	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-200250	UA-201564	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-200250	UA-201565	S - Flowerbed	S - Flowerbed	3	12	0	0	Unexpanded/Potting soil mix Homeowner purchase	17	3	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200250	UA-201566	S - Flower pot	S - Flower pot	1	4	0	0	Unexpanded/Potting soil mix Homeowner purchase	12	0	0	0	N/A		7/17/2008	
AD-200251	UA-201315	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A		6/23/2008	
AD-200251	UA-201316	S - Flowerbed	S - Flowerbed	29	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	30	0	0	0	N/A	A	6/23/2008	
AD-200251	UA-201317	S - Garden	S - Garden	5	0	0	0		10	0	0	0	N/A	A	6/23/2008	
AD-200251	UA-201318	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		23	1	0	0	Unexpanded unknown source	A	6/23/2008	
AD-200251	UA-201319	S - Garden	S - Garden	15	0	0	0		30	0	0	0	N/A	A	6/23/2008	
AD-200251	UA-201320	S - Flower pot	S - Flower pot	6	4	0	0	Unexpanded/Potting soil mix Homeowner purchase	10	15	0	0	Unexpanded/Potting soil mix Homeowner purchase		6/23/2008	
AD-200255	UA-201254	S - Flower pot	S - Flower pot	0	2	3	0	Unexpanded/Potting soil mix Homeowner purchase	2	19	9	0	Unexpanded/Potting soil mix Homeowner purchase		6/24/2008	
AD-200255	UA-201255	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	6/24/2008	
AD-200255	UA-201256	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	B1	6/24/2008	
AD-200255	UA-201257	S - Flowerbed	S - Flowerbed	30	0	0	0		28	2	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	6/24/2008	
AD-200255	UA-201258	S - Dog pen	S - Dog pen	30	0	0	0		30	0	0	0	N/A	B1	6/24/2008	
AD-200277	UA-200418	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200277	UA-200419	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200277	UA-200420	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200277	UA-200421	L - Pasture or field	L - Pasture or field	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200277	UA-200422	L - Maintained or mowed fields	L - Maintained or mowed fields	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200277	UA-200423	C - Walkway (unpaved)	C - Walkway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200277	UA-200424	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200277	UA-200425	L - Maintained or mowed fields	L - Maintained or mowed fields	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200316	UA-200734	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	6/25/2008	
AD-200316	UA-200735	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	6/25/2008	
AD-200316	UA-200736	S - Flowerbed	S - Flowerbed	20	10	0	0	Unexpanded	5	10	0	0	Unexpanded/Potting soil mix Homeowner purchase		6/25/2008	
AD-200316	UA-200737	S - Flowerbed	S - Flowerbed	15	0	0	0		10	0	0	0	N/A	A	6/25/2008	
AD-200316	UA-200738	S - Garden	S - Garden	30	0	0	0		13	0	0	0	N/A	A	6/25/2008	
AD-200316	UA-200739	C - Walkway (unpaved)	C - Walkway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	6/25/2008	
AD-200316	UA-200741	L - Pasture or field	L - Pasture or field	30	0	0	0		30	0	0	0	N/A	A	6/25/2008	
AD-200332	UA-200756	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		28	2	0	0	Unexpanded unknown source	A	6/23/2008	
AD-200332	UA-200757	S - Parking lot (unpaved)	S - Parking lot (unpaved)	15	0	0	0		30	0	0	0	N/A	A	6/23/2008	
AD-200332	UA-200758	C - Former garden	C - Former garden	16	14	0	0	Unexpanded/Potting soil mix Homeowner purchase	8	0	12	0	Unexpanded unknown source	A	6/23/2008	
AD-200332	UA-200759	S - Flowerbed	S - Flowerbed	22	8	0	0	Unexpanded/Potting soil mix Homeowner purchase	13	2	0	0	Unexpanded unknown source		6/23/2008	
AD-200332	UA-200760	S - Flowerbed	S - Flowerbed	4	0	0	0		5	0	0	0	N/A	A	6/23/2008	
AD-200333	UA-200604	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	6/17/2008	
AD-200333	UA-200605	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	6/17/2008	

PropertyID	Location_2007_ Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate 2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-200333	UA-200606	S - Flowerbed	S - Flowerbed	30	0	0	0		20	5	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	6/17/2008	
AD-200333	UA-200607	L - Overgrown areas	L - Overgrown areas	30	0	0	0		30	0	0	0	N/A	A	6/17/2008	
AD-200333	UA-200608	S - Flower pot	S - Flower pot	0	1	2	4	Unexpanded/Potting soil mix Homeowner purchase	1	7	4	0	Unexpanded/Potting soil mix Homeowner purchase		6/17/2008	
AD-200334	UA-200093	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		29	1	0	0	Unexpanded	A	5/21/2008	
AD-200334	UA-200094	S - Flowerbed	S - Flowerbed	3	7	0	0	Unexpanded	8	7	0	0	Unexpanded		5/21/2008	
AD-200334	UA-200097	S - Garden	S - Garden	0	8	2	0	Unexpanded	0	27	3	0	Unexpanded		5/21/2008	
AD-200334	UA-200106	C - Yard (front, back, side)	C - Yard (front, back, side)	29	1	0	0	Unexpanded	26	4	0	0	Unexpanded	B1	5/21/2008	
AD-200334	UA-200107	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		27	3	0	0	Unexpanded	A	5/21/2008	
AD-200394	UA-201861	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/9/2008	
AD-200394	UA-201862	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/9/2008	
AD-200394	UA-201863	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	0	0	0	0		A	7/9/2008	
AD-200394	UA-201864	S - Flower pot	S - Flower pot	0	6	0	0	Unexpanded	10	3	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/9/2008	
AD-200394	UA-201865	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	20	0	0	0	N/A	A	7/9/2008	
AD-200413	UA-200796	S - Flowerbed	S - Flowerbed	15	0	0	0		2	3	0	0	Unexpanded unknown source	A	6/17/2008	
AD-200413	UA-200797	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	6/17/2008	
AD-200413	UA-200798	S - Flower pot	S - Flower pot	30	10	0	0	Unexpanded/Potting soil mix Homeowner purchase	12	0	12	0	Unexpanded unknown source		6/17/2008	
AD-200413	UA-200799	S - Water Utility Aggregate/Soil	S - Water Utility Aggregate/Soil	1	0	0	0		6	3	0	0	Unexpanded unknown source	A	6/17/2008	
AD-200413	UA-200800	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		26	4	0	0	Unexpanded unknown source	A	6/17/2008	
AD-200433	UA-200322	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		29	1	0	0	Expanded Unknown Source	B1	7/21/2008	
AD-200433	UA-200323	S - Flowerbed	S - Flowerbed	2	8	0	0	Unexpanded/Potting soil mix Homeowner purchase	20	4	0	0	Expanded Unknown Source		7/21/2008	
AD-200433	UA-200324	C - Yard (front, back, side)	C - Yard (front, back, side)	28	1	1	0	Unexpanded	12	0	0	0	N/A	A	7/21/2008	
AD-200433	UA-200326	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		10	0	0	0	N/A	B1	7/21/2008	
AD-200433	UA-200327	S - Flower pot	S - Flower pot	19	7	1	6	Unexpanded/Potting soil mix Homeowner purchase	0	2	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/21/2008	
AD-200433	UA-200437	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/21/2008	
AD-200437	UA-201177	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	B1	6/17/2008	
AD-200437	UA-201178	S - Flowerbed	S - Flowerbed	30	0	0	0		24	6	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	6/17/2008	
AD-200437	UA-201179	S - Garden	S - Garden	12	0	0	0		30	0	0	0	N/A	A	6/17/2008	
AD-200437	UA-201180	S - Water Utility Aggregate/Soil	S - Water Utility Aggregate/Soil	6	0	0	0		0	0	10	0	Unexpanded/Potting soil mix Homeowner purchase	A	6/17/2008	
AD-200437	UA-201181	S - Flower pot	S - Flower pot	0	20	0	0	Unexpanded/Potting soil mix Homeowner purchase	4	4	4	0	Unexpanded/Potting soil mix Homeowner purchase		6/17/2008	
AD-200440	UA-201836	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	28	2	0	0	Unexpanded unknown source	B1	7/8/2008	
AD-200440	UA-201837	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	22	0	0	0	N/A	B1	7/8/2008	
AD-200440	UA-201838	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	15	5	0	0	Unexpanded unknown source	B1	7/8/2008	
AD-200440	UA-201839	S - Flower pot	S - Flower pot	0	5	0	0	Unexpanded	1	29	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/8/2008	
AD-200448	UA-200028	C - Yard (front, back, side)	C - Yard (front, back, side)	28	2	0	0	Unexpanded	29	1	0	0	Unexpanded	B1	5/20/2008	
AD-200448	UA-200029	S - Flowerbed	S - Flowerbed	0	30	0	0	Unexpanded	29	1	0	0	Unexpanded		5/20/2008	
AD-200448	UA-200030	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	5/20/2008	
AD-200448	UA-200031	S - Flowerbed	S - Flowerbed	0	30	0	0	Unexpanded	29	1	0	0	Unexpanded		5/20/2008	
AD-200448	UA-200032	S - Parking lot (unpaved)	S - Parking lot (unpaved)	30	0	0	0		29	1	0	0	Unexpanded	B1	5/20/2008	
AD-200458	UA-201168	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/14/2008	
AD-200458	UA-201169	S - Flowerbed	S - Flowerbed	30	0	0	0		26	4	0	0	Expanded Unknown Source	B1	7/14/2008	
AD-200458	UA-201170	S - Garden	S - Garden	22	8	0	0	Unexpanded/Potting soil mix Homeowner purchase	20	10	0	0	Expanded Unknown Source	B1	7/14/2008	
AD-200458	UA-201171	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/14/2008	
AD-200458	UA-201172	S - Stockpile	S - Stockpile	30	0	0	0		12	0	0	0	N/A	B2	7/14/2008	
AD-200458	UA-201173	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/14/2008	

PropertyID	Location_2007_ Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate 2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-200458	UA-201174	S - Flower Pot	S - Flower Pot	10	2	0	0	Unexpanded/Potting soil mix Homeowner purchase	5	0	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/14/2008	
AD-200458	UA-201176	S - Dog pen	S - Dog pen	0	0	0	0		10	0	0	0	N/A		7/14/2008	Dog kennel; not sampled b/c it's the same material as the yard.
AD-200464	UA-201031	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	6/19/2008	
AD-200464	UA-201032	S - Flowerbed	S - Flowerbed	10	0	0	0		13	0	0	0	N/A	A	6/19/2008	
AD-200464	UA-201033	S - Flowerbed	S - Flowerbed	0	0	0	5	Unexpanded/Potting soil mix Homeowner purchase	9	1	0	0	Unexpanded unknown source		6/19/2008	
AD-200464	UA-201034	S - Flower pot	S - Flower pot	8	0	0	0		0	5	3	0	Unexpanded/Potting soil mix Homeowner purchase	A	6/19/2008	
AD-200470	UA-201355	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	B1	6/19/2008	
AD-200470	UA-201356	S - Flowerbed	S - Flowerbed	6	0	0	0		6	0	0	0	N/A	A	6/19/2008	
AD-200470	UA-201357	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		29	1	0	0	Unexpanded unknown source	A	6/19/2008	
AD-200470	UA-201359	C - Former flowerbed	C - Former flowerbed	20	0	0	0		10	0	0	0	N/A	B1	6/19/2008	
AD-200473	UA-200427	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200473	UA-200428	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200473	UA-200430	S - Flower pot	S - Flower pot	5	0	0	0		5	0	0	0	N/A	A	5/22/2008	
AD-200480	UA-200767	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	5/20/2008	
AD-200480	UA-200768	S - Flowerbed	S - Flowerbed	5	0	0	0		30	0	0	0	N/A	B1	5/20/2008	
AD-200480	UA-200769	S - Flowerbed	S - Flowerbed	10	0	0	0		20	10	0	0	Unexpanded	A	5/20/2008	
AD-200480	UA-200770	C - Former garden	C - Former garden	0	0	0	30	Unexpanded	0	23	7	0	Unexpanded	C	5/20/2008	
AD-200480	UA-200771	S - Driveway (unpaved)	S - Driveway (unpaved)	10	0	0	0		30	0	0	0	N/A	B2	5/20/2008	
AD-200480	UA-200772	S - Flowerbed	S - Flowerbed	0	9	0	0	Unexpanded	28	2	0	0	Unexpanded		5/20/2008	
AD-200480	UA-200773	S - Flowerbed	S - Flowerbed	0	3	0	0	Unexpanded	27	3	0	0	Unexpanded		5/20/2008	
AD-200480	UA-200774	S - Flowerbed	S - Flowerbed	0	12	0	0	Unexpanded	11	0	0	0	N/A		5/20/2008	
AD-200480	UA-200775	S - Garden	S - Garden	0	4	13	13	Unexpanded	0	5	25	0	Unexpanded		5/20/2008	
AD-200480	UA-200777	N - Un-maintained fields	N - Un-maintained fields	0	0	0	0		0	0	0	0	N/A		5/20/2008	
AD-200485	UA-201366	S - Driveway (unpaved)	S - Driveway (unpaved)	15	0	0	0		30	0	0	0	N/A	B2	7/17/2008	
AD-200485	UA-201367	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		22	8	0	0	Expanded Unknown Source	A	7/17/2008	
AD-200485	UA-201368	S - Flowerbed	S - Flowerbed	0	5	0	0		5	0	0	0	N/A		7/17/2008	Not sampled due to low VV & 4 sqft size; no aliquo
AD-200485	UA-201369	S - Water Utility Aggregate/Soil	S - Water Utility Aggregate/Soil	5	0	0	0		30	0	0	0	N/A	A	7/17/2008	
AD-200485	UA-201370	C - Former flowerbed	C - Former flowerbed	15	0	0	0		30	0	0	0	N/A	A	7/17/2008	
AD-200488	UA-201334	L - Maintained or mowed fields	L - Maintained or mowed fields	30	0	0	0		30	0	0	0	N/A	B1	6/19/2008	
AD-200488	UA-201335	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		29	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	6/19/2008	
AD-200488	UA-201336	S - Flowerbed	S - Flowerbed	10	0	0	0		20	0	0	0	N/A	A	6/19/2008	
AD-200488	UA-201337	S - Flowerbed	S - Flowerbed	10	0	0	0		4	11	0	0	Unexpanded/Potting soil mix Homeowner purchase	B1	6/19/2008	
AD-200488	UA-201338	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		15	3	0	0	Unexpanded unknown source	B2	6/19/2008	
AD-200488	UA-201339	S - Flower pot	S - Flower pot	0	2	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	8	0	2	Unexpanded/Potting soil mix Homeowner purchase		6/19/2008	
AD-200496	UA-200927	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	B1	5/23/2008	
AD-200496	UA-200928	S - Flowerbed	S - Flowerbed	30	0	0	0		15	0	0	0	N/A	A	5/23/2008	
AD-200496	UA-200929	S - Water Utility Aggregate/Soil	S - Water Utility Aggregate/Soil	1	0	0	0		30	0	0	0	N/A	B1	5/23/2008	
AD-200496	UA-200930	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	5/23/2008	
AD-200496	UA-200931	S - Garden	S - Garden	10	0	0	0		10	0	0	0	N/A	B1	5/23/2008	
AD-200496	UA-200932	S - Unpaved storage area	S - Unpaved storage area	15	0	0	0		30	0	0	0	N/A	B1	5/23/2008	
AD-200515	UA-200186	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	B1	7/11/2008	
AD-200515	UA-200187	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/11/2008	
AD-200515	UA-200188	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/11/2008	
AD-200515	UA-200189	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/11/2008	
AD-200515	UA-200190	S - Flowerbed	S - Flowerbed	0	0	0	1		7	1	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/11/2008	Not sampled due to "high" VV in (114 sqft) flowerbed
AD-200515	UA-200191	S - Flower pot	S - Flower pot	30	0	0	0		15	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/11/2008	
AD-200515	UA-200192	S - Parking lot (unpaved)	S - Parking lot (unpaved)	20	0	0	0		10	0	0	0	N/A	B1	7/11/2008	
AD-200533	UA-200396	L - Underneath porches or decks	L - Underneath porches or decks	3	0	0	0		2	0	0	0	N/A	B1	5/21/2008	
AD-200533	UA-200397	S - Flowerbed	S - Flowerbed	2	3	7	0	Unexpanded	0	8	2	0	Unexpanded		5/21/2008	
AD-200533	UA-200398	L - Underneath porches or decks	L - Underneath porches or decks	5	0	1	0	Unexpanded	23	2	0	0	Unexpanded	B1	5/21/2008	
AD-200533	UA-200399	C - Yard (front, back, side)	C - Yard (front, back, side)	14	16	0	0	Unexpanded	28	2	0	0	Unexpanded	B1	5/21/2008	

PropertyID	Location_2007_ Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate 2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-200533	UA-200406	C - Walkway (unpaved)	C - Walkway (unpaved)	30	0	0	0		12	0	0	0	N/A	B2	5/21/2008	
AD-200533	UA-200407	S - Garden	S - Garden	0	2	0	0	Unexpanded	15	15	0	0	Unexpanded		5/21/2008	
AD-200533	UA-200408	S - Flowerbed	S - Flowerbed	30	0	0	0		30	0	0	0	N/A	A	5/21/2008	
AD-200533	UA-200410	S - Garden	S - Garden	0	5	2	0	Unexpanded	20	8	2	0	Unexpanded		5/21/2008	
AD-200533	UA-200411	S - Parking lot (unpaved)	S - Parking lot (unpaved)	30	1	0	0	Unexpanded	30	0	0	0	N/A	B1	5/21/2008	
AD-200534	UA-200552	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/9/2008	
AD-200534	UA-200553	S - Flowerbed	S - Flowerbed	30	0	0	0		0	0	0	0		A	7/9/2008	
AD-200534	UA-200554	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	16	14	0	0	Unexpanded		7/9/2008	
AD-200534	UA-200555	S - Flowerbed	S - Flowerbed	30	0	0	0		22	8	0	0	Unexpanded/Potting soil mix Homeowner purchase	B1	7/9/2008	
AD-200534	UA-200556	S - Flowerbed	S - Flowerbed	7	0	0	0		7	3	0	0	Unexpanded	B1	7/9/2008	
AD-200534	UA-200557	S - Flower pot	S - Flower pot	0	6	0	0	Unexpanded/Potting soil mix Homeowner purchase	17	1	5	0	Unexpanded/Potting soil mix Homeowner purchase		7/9/2008	
AD-200534	UA-200558	L - Underneath porches or decks	L - Underneath porches or decks	1	0	0	0		5	3	0	0	Unexpanded	B1	7/9/2008	
AD-200552	UA-201420	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-200552	UA-201421	S - Defined play area	S - Defined play area	10	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-200552	UA-201520	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-200552	UA-201521	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B2	7/17/2008	
AD-200552	UA-201780	S - Flower pot	S - Flower pot	6	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	12	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200563	UA-200676	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/15/2008	
AD-200563	UA-200677	S - Flowerbed	S - Flowerbed	12	0	0	0		15	0	0	0	N/A	B1	7/15/2008	
AD-200563	UA-200678	S - Flowerbed	S - Flowerbed	12	0	0	0		8	7	0	0	Expanded Unknown Source	B1	7/15/2008	
AD-200563	UA-200679	S - Flowerbed	S - Flowerbed	30	0	0	0		3	3	0	0	Expanded Unknown Source	B2	7/15/2008	
AD-200563	UA-200680	S - Flowerbed	S - Flowerbed	15	0	0	0		27	2	0	0	Expanded Unknown Source	B1	7/15/2008	
AD-200563	UA-200681	S - Garden	S - Garden	15	0	0	0		18	2	0	0	Expanded Unknown Source		7/15/2008	Not sampled b/c gravel-covered cultivated area.
AD-200567	UA-201598	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/23/2008	
AD-200567	UA-201599	S - Driveway (unpaved)	S - Driveway (unpaved)	15	0	0	0	N/A	10	0	0	0	N/A	B1	7/23/2008	
AD-200567	UA-201601	S - Flower pot	S - Flower pot	0	10	0	0	Unexpanded/Potting soil mix Homeowner purchase	4	17	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/23/2008	
AD-200567	UA-201602	S - Flowerbed	S - Flowerbed	0	4	0	0	Unexpanded/Potting soil mix Homeowner purchase	26	4	0	0	Expanded Unknown Source		7/23/2008	
AD-200575	UA-201771	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	28	2	0	0	Expanded Unknown Source	A	7/14/2008	
AD-200575	UA-201772	S - Water Utility Aggregate/Soil	S - Water Utility Aggregate/Soil	5	0	0	0	N/A	14	1	0	0	Expanded Unknown Source	A	7/14/2008	
AD-200575	UA-201773	S - Flowerbed	S - Flowerbed	29	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	22	7	1	0	Expanded Unknown Source	A	7/14/2008	
AD-200575	UA-201774	S - Flower pot	S - Flower pot	29	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	2	21	7	0	Expanded Unknown Source	A	7/14/2008	
AD-200575	UA-201775	S - Flowerbed	S - Flowerbed	0	0	0	30	Unexpanded/Potting soil mix Homeowner purchase	14	6	0	0	Expanded Unknown Source		7/14/2008	
AD-200576	UA-201584	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	25	5	0	0	Unexpanded unknown source	A	7/8/2008	
AD-200576	UA-201585	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	15	0	0	0	N/A	B1	7/8/2008	
AD-200576	UA-201586	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	28	2	0	0	Unexpanded/Potting soil mix Homeowner purchase	B1	7/8/2008	
AD-200576	UA-201587	S - Flower pot	S - Flower pot	0	4	2	0	Unexpanded/Potting soil mix Homeowner purchase	0	7	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/8/2008	
AD-200583	UA-202042	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/15/2008	
AD-200583	UA-202043	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	12	3	0	0	Expanded Unknown Source	B1	7/15/2008	
AD-200583	UA-202044	S - Flower pot	S - Flower pot	25	5	0	0	Unexpanded/Potting soil mix Homeowner purchase	2	1	0	0	Expanded Unknown Source		7/15/2008	
AD-200583	UA-202045	S - Flowerbed	S - Flowerbed	25	5	0	0	N/A	28	2	0	0	Expanded Unknown Source		7/15/2008	
AD-200600	UA-201304	S - Flowerbed	S - Flowerbed	1	5	0	0	Unexpanded	26	4	0	0	N/A		5/22/2008	
AD-200600	UA-201305	S - Flower pot	S - Flower pot	0	7	0	0	Unexpanded	6	4	0	0	N/A		5/22/2008	
AD-200600	UA-201306	C - Yard (front, back, side)	C - Yard (front, back, side)	28	2	0	0	Unexpanded	30	0	0	0	N/A	A	5/22/2008	
AD-200607	UA-201482	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/22/2008	

PropertyID	Location_2007_ Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate 2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-200607	UA-201483	S - Garden	S - Garden	10	0	0	0	N/A	15	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	B1	7/22/2008	
AD-200607	UA-201484	S - Flower pot	S - Flower pot	22	0	0	8	N/A	11	4	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/22/2008	
AD-200607	UA-201485	S - Flower pot	S - Flowerbed	10	0	0	0	Unexpanded/Potting soil mix Homeowner purchase	12	0	0	0	N/A	A	7/22/2008	
AD-200610	UA-200037	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		9	0	0	0	N/A	A	7/17/2008	
AD-200610	UA-200038	S - Parking lot (unpaved)	S - Parking lot (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/17/2008	
AD-200610	UA-200039	S - Flower pot	S - Flower pot	30	0	0	0		4	10	0	0	Unexpanded/Potting soil mix Homeowner purchase	B1	7/17/2008	
AD-200610	UA-200040	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/17/2008	
AD-200610	UA-200041	S - Garden	S - Garden	30	0	0	0		23	7	0	0	Expanded Unknown Source	B1	7/17/2008	
AD-200610	UA-200042	S - Flowerbed	S - Flowerbed	30	0	0	0		15	0	0	0	N/A	B1	7/17/2008	
AD-200610	UA-200043	S - Parking lot (unpaved)	S - Parking lot (unpaved)	30	0	0	0		15	1	0	0	Expanded Unknown Source	B1	7/17/2008	
AD-200649	UA-201800	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/18/2008	
AD-200649	UA-201801	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B2	7/18/2008	
AD-200649	UA-201802	S - Defined play area	S - Defined play area	9	0	0	0	N/A	15	0	0	0	N/A	B1	7/18/2008	
AD-200649	UA-201803	S - Garden	S - Garden	30	0	0	0	N/A	30	0	0	0	N/A	A	7/18/2008	
AD-200649	UA-201804	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	18	0	0	0	N/A	A	7/18/2008	
AD-200649	UA-201805	S - Flower pot	S - Flower pot	0	15	0	0	Unexpanded/Potting soil mix Homeowner purchase	3	27	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/18/2008	
AD-200652	UA-201581	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/23/2008	
AD-200652	UA-201682	C - Yard (front, back, side)	C - Yard (front, back, side)	28	0	2	0	Unexpanded	14	8	8	0	Expanded Unknown Source	B2	7/23/2008	
AD-200652	UA-201683	S - Flowerbed	S - Flowerbed	10	0	0	0	N/A	20	0	0	0	N/A	A	7/23/2008	
AD-200652	UA-201684	S - Garden	S - Garden	5	0	0	0	N/A	24	6	0	0	Expanded Unknown Source	A	7/23/2008	
AD-200652	UA-201685	S - Flower pot	S - Flower pot	0	6	0	0	Unexpanded	3	8	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/23/2008	
AD-200652	UA-201686	L - Pasture or field	L - Pasture or field	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/23/2008	
AD-200654	UA-201220	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	B1	7/10/2008	
AD-200654	UA-201221	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/10/2008	
AD-200654	UA-201222	S - Garden	S - Garden	30	0	0	0		26	4	0	0	Unexpanded	B1	7/10/2008	
AD-200654	UA-201223	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	10	0	0	0	N/A		7/10/2008	
AD-200654	UA-201224	S - Flower pot	S - Flower pot	8	2	0	0	Unexpanded/Potting soil mix Homeowner purchase	10	4	0	0	Unexpanded		7/10/2008	
AD-200660	UA-201806	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	28	2	0	0	Expanded Unknown Source	B1	7/18/2008	
AD-200660	UA-201807	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/18/2008	
AD-200660	UA-201808	S - Flower pot	S - Flower pot	7	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	5	6	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/18/2008	
AD-200665	UA-201301	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-200665	UA-201423	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	27	3	0	0	Expanded Unknown Source	B2	7/17/2008	
AD-200665	UA-201424	S - Lean to	S - Lean to	30	0	0	0	N/A	10	0	0	0	N/A	B1	7/17/2008	
AD-200665	UA-201425	S - Flower pot	S - Flower pot	0	13	0	0	Unexpanded/Potting soil mix Homeowner purchase	1	13	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200678	UA-201549	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/15/2008	
AD-200678	UA-201550	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	15	0	0	0	N/A	A	7/15/2008	
AD-200678	UA-201551	L - Underneath porches or decks	L - Underneath porches or decks	10	0	0	0	Expanded leaking from building	0	5	0	0	Expanded Unknown Source	A	7/15/2008	
AD-200678	UA-201552	S - Flowerbed	S - Flowerbed	0	1	0	0	Unexpanded	5	0	0	0	N/A		7/15/2008	Not sampled; "VV in flower garden, sample not take
AD-200682	UA-201616	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B2	5/22/2008	
AD-200682	UA-201617	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	5/22/2008	
AD-200682	UA-201618	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	29	1	0	0	Unexpanded	B1	5/22/2008	
AD-200682	UA-201619	S - Flower pot	S - Flower pot	10	0	0	0	N/A	3	0	0	0	N/A	B1	5/22/2008	
AD-200682	UA-201620	S - Garden	S - Garden	30	0	0	0	N/A	30	0	0	0	N/A	B2	5/22/2008	
AD-200688	UA-201702	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-200688	UA-201703	S - Flowerbed	S - Flowerbed	8	0	0	0	N/A	14	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/17/2008	

PropertyID	Location_2007_Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-200688	UA-201704	S - Dog pen	S - Dog pen	10	0	0	0	N/A	10	0	0	0	N/A	B1	7/17/2008	
AD-200688	UA-201705	S - Flower pot	S - Flower pot	0	5	0	0	Unexpanded/Potting soil mix Homeowner purchase	7	2	1	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200698	UA-201342	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	7/9/2008	
AD-200698	UA-201343	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/9/2008	
AD-200698	UA-201344	C - Former garden	C - Former garden	30	0	0	0		27	3	0	0	Unexpanded	B1	7/9/2008	
AD-200698	UA-201345	L - Underneath porches or decks	L - Underneath porches or decks	5	0	0	0		4	0	0	0	N/A	A	7/9/2008	
AD-200698	UA-201346	S - Flower pot	S - Flower pot	3	5	0	0	Unexpanded	7	3	0	0	Unexpanded		7/9/2008	
AD-200698	UA-201347	S - Flowerbed	S - Flowerbed	30	0	0	0		8	7	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/9/2008	
AD-200708	UA-201611	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-200708	UA-201612	L - Pasture or field	L - Pasture or field	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-200708	UA-201613	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-200708	UA-201614	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	20	10	0	0	Unexpanded/Potting soil mix Homeowner purchase	B1	7/17/2008	7/17/08 during VV: Flower beds on west side of house and porch have been removed, also on south side of porch. Some potting soil remains in these areas with VV (some in grass @ the edge)
AD-200708	UA-201615	S - Flower pot	S - Flower pot	2	17	3	0	Unexpanded/Potting soil mix Homeowner purchase	2	28	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200734	UA-201035	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		23	7	0	0	Expanded Unknown Source	A	7/14/2008	
AD-200734	UA-201036	S - Flowerbed	S - Flowerbed	30	0	0	0		10	0	0	0	N/A	A	7/14/2008	
AD-200734	UA-201037	S - Garden	S - Garden	0	30	0	0	Unexpanded/Potting soil mix Homeowner purchase	26	4	0	0	Expanded Unknown Source		7/14/2008	
AD-200734	UA-201038	S - Flowerbed	S - Flowerbed	0	30	0	0	Unexpanded/Potting soil mix Homeowner purchase	13	2	0	0	Expanded Unknown Source		7/14/2008	
AD-200737	UA-200844	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/9/2008	
AD-200737	UA-200845	S - Stockpile	S - Stockpile	30	0	0	0		15	0	0	0	N/A	A	7/9/2008	
AD-200737	UA-200846	S - Flowerbed	S - Flowerbed	30	0	0	0		10	0	0	0	N/A	A	7/9/2008	
AD-200737	UA-200847	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/9/2008	
AD-200737	UA-200848	S - Flower pot	S - Flower pot	21	9	0	0	Unexpanded/Potting soil mix Homeowner purchase	10	20	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/9/2008	
AD-200737	UA-200849	S - Garden	S - Garden	30	0	0	0		30	0	0	0	N/A	A	7/9/2008	
AD-200737	UA-200850	S - Flowerbed	S - Flowerbed	30	0	0	0		19	1	0	0	Unexpanded	A	7/9/2008	
AD-200737	UA-200851	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		28	2	0	0	Unexpanded	A	7/9/2008	
AD-200737	UA-200852	L - Underneath porches or decks	L - Underneath porches or decks	3	0	0	0		0	1	0	0	Unexpanded	A	7/9/2008	
AD-200747	UA-201626	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B2	7/17/2008	
AD-200747	UA-201627	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-200747	UA-201628	S - Flowerbed	S - Flowerbed	10	20	0	0	Unexpanded/Potting soil mix Homeowner purchase	5	1	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200747	UA-201629	S - Flower pot	S - Flower pot	2	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	5	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200747	UA-201630	S - Garden	S - Garden	30	0	0	0	N/A	5	0	0	0	N/A	A	7/17/2008	
AD-200776	UA-201840	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	29	1	0	0	Expanded Unknown Source	B1	7/14/2008	
AD-200776	UA-201841	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/14/2008	
AD-200776	UA-201842	S - Flower pot	S - Flower pot	0	10	0	0		29	1	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/14/2008	
AD-200776	UA-201843	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	22	8	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/14/2008	
AD-200790	UA-200697	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	B1	7/17/2008	
AD-200790	UA-200698	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/17/2008	
AD-200790	UA-200699	C - Former garden	C - Former garden	30	0	0	0		26	4	0	0	Unexpanded/Potting soil mix Homeowner purchase	B1	7/17/2008	
AD-200790	UA-200700	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/17/2008	
AD-200790	UA-200701	S - Flowerbed	S - Flowerbed	27	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	5	11	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200790	UA-200703	S - Flower pot	S - Flower pot	29	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	14	0	0	0	N/A	B1	7/17/2008	
AD-200811	UA-201505	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/21/2008	

PropertyID	Location_2007_ Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate 2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-200811	UA-201506	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	28	2	0	0	Expanded Unknown Source	B1	7/21/2008	
AD-200811	UA-201507	S - Garden	S - Garden	0	5	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	15	0	0	Expanded Unknown Source		7/21/2008	
AD-200811	UA-201508	S - Flowerbed	S - Flowerbed	7	0	0	0	N/A	13	2	0	0	Expanded Unknown Source	A	7/21/2008	
AD-200811	UA-201509	S - Flower pot	S - Flower pot	7	0	0	0	N/A	5	1	0	0	Expanded Unknown Source	A	7/21/2008	
AD-200811	UA-201510	S - Garden	S - Garden	5	0	0	0	N/A	17	3	0	0	Expanded Unknown Source	A	7/21/2008	
AD-200811	UA-201511	S - Stockpile	S - Stockpile	5	0	0	0	N/A	21	1	0	0	Expanded Unknown Source	B1	7/21/2008	
AD-200811	UA-201513	L - Underneath porches or decks	L - Underneath porches or decks	1	0	0	0	N/A	10	0	0	0	N/A	A	7/21/2008	
AD-200811	UA-201514	L - Underneath porches or decks	L - Underneath porches or decks	5	0	0	0	N/A	10	0	0	0	N/A	A	7/21/2008	
AD-200818	UA-201574	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-200818	UA-201575	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-200818	UA-201576	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	28	2	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/17/2008	
AD-200818	UA-201577	L - Overgrown areas	L - Overgrown areas	30	0	0	0	N/A	29	1	0	0	Expanded Unknown Source	A	7/17/2008	
AD-200818	UA-201578	S - Flowerbed	S - Flowerbed	19	0	1	0	Unexpanded/Potting soil mix Homeowner purchase	29	1	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200818	UA-201579	S - Flower pot	S - Flower pot	19	0	1	0	Unexpanded/Potting soil mix Homeowner purchase	10	10	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200827	UA-200291	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200827	UA-200292	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	5/22/2008	
AD-200827	UA-200293	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200827	UA-200294	S - Stockpile	S - Stockpile	5	0	0	0		30	0	0	0	N/A	B2	5/22/2008	
AD-200827	UA-200295	S - Stockpile	S - Stockpile	3	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200827	UA-200296	S - Dog pen	S - Dog pen	30	0	0	0		29	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	5/22/2008	
AD-200827	UA-200297	S - Flowerbed	S - Flowerbed	30	0	0	0		25	5	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	5/22/2008	
AD-200827	UA-200298	L - Overgrown areas	L - Overgrown areas	28	2	0	0	Unexpanded	25	5	0	0	Unexpanded	A	5/22/2008	
AD-200827	UA-200300	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200827	UA-200301	S - Garden	S - Garden	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200827	UA-200302	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		27	3	0	0	Unexpanded	A	5/22/2008	
AD-200827	UA-200303	L - Overgrown areas	L - Overgrown areas	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200827	UA-200304	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	5/22/2008	
AD-200827	UA-200305	S - Garden	S - Garden	30	0	0	0		29	1	0	0	Unexpanded	B1	5/22/2008	
AD-200838	UA-200948	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/18/2008	
AD-200838	UA-200949	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	7/18/2008	
AD-200838	UA-200950	S - Flowerbed	S - Flowerbed	30	0	0	0		15	0	0	0	N/A	A	7/18/2008	
AD-200838	UA-200952	S - Flower pot	S - Flower pot	3	5	0	0	Unexpanded/Potting soil mix Homeowner purchase	5	0	0	0	N/A		7/18/2008	
AD-200845	UA-201698	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/22/2008	
AD-200845	UA-201699	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B2	7/22/2008	
AD-200845	UA-201700	S - Garden	S - Garden	10	0	0	0	Unexpanded/Potting soil mix Homeowner purchase	21	9	0	0	Expanded Unknown Source	B1	7/22/2008	
AD-200845	UA-201701	S - Flowerbed	S - Flowerbed	15	0	0	0	N/A	30	0	0	0	N/A	B1	7/22/2008	
AD-200845	UA-201906	S - Flower pot	S - Flower pot	4	6	0	0	Unexpanded/Potting soil mix Homeowner purchase	12	18	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/22/2008	
AD-200846	UA-201082	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	7/17/2008	
AD-200846	UA-201083	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	7/17/2008	
AD-200846	UA-201084	L - Pasture or field	L - Pasture or field	30	0	0	0		30	0	0	0	N/A	A	7/17/2008	
AD-200846	UA-201085	S - Dog pen	S - Dog pen	10	0	0	0		30	0	0	0	N/A	B1	7/17/2008	
AD-200846	UA-201086	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/17/2008	
AD-200846	UA-201087	C - Former House Foundation	C - Former House Foundation	30	0	0	0		10	0	0	0	N/A	A	7/17/2008	
AD-200846	UA-201088	S - Pig pen	S - Pig pen	30	0	0	0		30	0	0	0	N/A	B1	7/17/2008	
AD-200846	UA-201089	S - Horse Corral	S - Horse Corral	10	0	20	0	Unexpanded	30	0	0	0	N/A		7/17/2008	
AD-200846	UA-201090	S - Garden	S - Garden	30	0	0	0		12	0	0	0	N/A	A	7/17/2008	
AD-200847	UA-201688	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/18/2008	
AD-200847	UA-201689	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/18/2008	
AD-200847	UA-201690	L - Pasture or field	L - Pasture or field	30	0	0	0	N/A	30	0	0	0	N/A	A	7/18/2008	
AD-200847	UA-201691	S - Horse Corral	S - Horse Corral	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/18/2008	



PropertyID	Location_2007_ Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate 2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-200847	UA-201692	S - Garden	S - Garden	0	0	0	0	N/A	30	0	0	0	N/A		7/18/2008	Not sampled b/c 350 SF rock garden
AD-200847	UA-201693	S - Flowerbed	S - Flowerbed	10	0	0	0	N/A	5	0	0	0	N/A	A	7/18/2008	
AD-200847	UA-201905	S - Flower pot	S - Flower pot	7	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	5	0	5	0	Unexpanded/Potting soil mix Homeowner purchase		7/18/2008	
AD-200851	UA-201453	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/23/2008	
AD-200851	UA-201454	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/23/2008	
AD-200851	UA-201455	L - Pasture or field	L - Pasture or field	30	0	0	0	N/A	30	0	0	0	N/A	A	7/23/2008	
AD-200851	UA-201456	L - Maintained or mowed fields	L - Maintained or mowed fields	30	0	0	0	N/A	30	0	0	0	N/A	A	7/23/2008	
AD-200851	UA-201457	S - Flower pot	S - Flower pot	0	12	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	8	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/23/2008	
AD-200873	UA-201716	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-200873	UA-201717	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	25	0	0	0	N/A	B2	7/17/2008	
AD-200873	UA-201719	S - Flowerbed	S - Flowerbed	9	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	20	0	0	0	N/A		7/17/2008	
AD-200873	UA-201720	S - Flower pot	S - Flower pot	6	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	8	2	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200879	UA-201633	C - Yard (front, back, side)	C - Yard (front, back, side)	29	1	0	0	Unexpanded	30	0	0	0	N/A	A	5/21/2008	
AD-200879	UA-201634	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	A	5/21/2008	
AD-200879	UA-201635	C - Former garden	C - Former garden	29	1	0	0	Unexpanded	30	0	0	0	N/A	A	5/21/2008	
AD-200879	UA-201636	S - Flower pot	S - Flower pot	9	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	6	0	0	Unexpanded/Potting soil mix Homeowner purchase		5/21/2008	
AD-200879	UA-201637	S - Flowerbed	S - Flowerbed	14	5	1	0	Unexpanded	29	1	0	0	Unexpanded		5/21/2008	
AD-200879	UA-201638	L - Underneath porches or decks	L - Underneath porches or decks	1	0	0	0	N/A	30	0	0	0	N/A	B1	5/21/2008	
AD-200911	UA-201308	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	B1	7/18/2008	
AD-200911	UA-201309	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	7/18/2008	
AD-200911	UA-201310	S - Defined play area	S - Defined play area	30	0	0	0		30	0	0	0	N/A	A	7/18/2008	
AD-200911	UA-201311	S - Flower pot	S - Flower pot	0	4	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	7	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/18/2008	
AD-200911	UA-201312	L - Overgrown areas	L - Overgrown areas	30	0	0	0		30	0	0	0	N/A	A	7/18/2008	
AD-200915	UA-201109	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	5/22/2008	
AD-200915	UA-201110	S - Flowerbed	S - Flowerbed	1	9	0	0	Unexpanded/Potting soil mix Homeowner purchase	30	0	0	0	N/A		5/22/2008	
AD-200915	UA-201111	S - Flower pot	S - Flower pot	8	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	23	2	0	0	N/A		5/22/2008	
AD-200915	UA-201112	S - Garden	S - Garden	2	8	0	0	Unexpanded/Potting soil mix Homeowner purchase	20	0	0	0	N/A		5/22/2008	
AD-200917	UA-201061	C - Yard (front, back, side)	L - Maintained or mowed fields	30	0	0	0		30	0	0	0	N/A	A	7/22/2008	
AD-200917	UA-201062	S - Flowerbed	S - Flowerbed	12	0	0	0		18	0	0	0	N/A	A	7/22/2008	
AD-200917	UA-201063	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/22/2008	
AD-200917	UA-201066	S - Flower pot	S - Flower pot	0	11	0	0	Unexpanded/Potting soil mix Homeowner purchase	26	4	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/22/2008	
AD-200922	UA-201225	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		28	2	0	0	Unexpanded	A	5/21/2008	
AD-200922	UA-201226	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	5/21/2008	
AD-200922	UA-201227	S - Stockpile	S - Stockpile	15	0	0	0		20	0	0	0	N/A	A	5/21/2008	
AD-200922	UA-201228	C - Former House Foundation	C - Former House Foundation	4	6	0	0	Unexpanded	15	0	0	0	N/A		5/21/2008	
AD-200922	UA-201229	S - Stockpile	S - Stockpile	0	0	5	0	Unexpanded	0	8	2	0	Unexpanded		5/21/2008	
AD-200922	UA-201230	S - Flower pot	S - Flower pot	0	3	0	0	Unexpanded	3	9	1	0	Unexpanded/Potting soil mix Homeowner purchase		5/21/2008	
AD-200922	UA-201232	C - Former garden	C - Former garden	5	5	0	0	Unexpanded	27	3	0	0	Unexpanded		5/21/2008	7/25/07: Not sampled. Field team applied SUA criteria.
AD-200946	UA-201378	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		28	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/18/2008	
AD-200946	UA-201380	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/18/2008	
AD-200946	UA-201381	S - Dog pen	S - Dog pen	20	0	0	0		30	0	0	0	N/A	A	7/18/2008	7/18/08: Fence around dog area has been removed.
AD-200946	UA-201462	S - Flowerbed	S - Flowerbed	0	2	0	0	Unexpanded	28	2	0	0	Expanded Unknown Source		7/18/2008	
AD-200948	UA-201286	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-200948	UA-201287	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	29	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/17/2008	
AD-200948	UA-201289	L - Overgrown areas	L - Overgrown areas	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	

PropertyID	Location_2007_ Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate 2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-200948	UA-201292	L - Underneath porches or decks	L - Underneath porches or decks	5	0	0	0	N/A	8	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	B1	7/17/2008	
AD-200950	UA-201477	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/18/2008	
AD-200950	UA-201479	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	27	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/18/2008	
AD-200950	UA-201480	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	27	3	0	0	Expanded Unknown Source	B1	7/18/2008	
AD-200950	UA-201481	S - Flower pot	S - Flower pot	10	20	0	0	Unexpanded/Potting soil mix Homeowner purchase	9	0	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/18/2008	
AD-200966	UA-201276	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-200966	UA-201277	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-200966	UA-201278	S - Flowerbed	S - Flowerbed	5	4	2	4	N/A	24	0	0	0	Expanded Unknown Source		7/17/2008	
AD-200966	UA-201279	L - Underneath porches or decks	L - Underneath porches or decks	8	0	0	0	N/A	28	0	0	0	Expanded Unknown Source	A	7/17/2008	
AD-200967	UA-201706	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-200967	UA-201708	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-200967	UA-201709	S - Flower pot	S - Flower pot	0	8	0	0	Unexpanded/Potting soil mix Homeowner purchase	1	3	2	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200968	UA-201710	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-200968	UA-201715	S - Flower pot	S - Flower pot	0	14	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	10	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-200969	UA-201360	S - Garden	S - Garden	8	9	13	0	Unexpanded	25	5	0	0	Unexpanded		7/21/2008	
AD-200969	UA-201361	S - Garden	S - Garden	7	0	0	0		4	0	0	0	N/A	B1	7/21/2008	
AD-200969	UA-201362	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		28	2	0	0	Expanded Unknown Source	A	7/21/2008	
AD-200969	UA-201363	S - Flowerbed	S - Flowerbed	5	0	0	0		8	0	0	0	N/A	B1	7/21/2008	
AD-200969	UA-201364	S - Driveway (unpaved)	S - Driveway (unpaved)	15	0	0	0		30	0	0	0	N/A	B1	7/21/2008	
AD-200969	UA-201365	S - Flower pot	S - Flowerbed	0	0	1	0	Unexpanded	8	0	0	0	N/A		7/21/2008	
AD-201010	UA-202090	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-201010	UA-202091	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	25	0	0	0	N/A	B1	7/17/2008	
AD-201010	UA-202092	S - Flower pot	S - Flower pot	0	10	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	30	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-201014	UA-201122	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	B1	5/20/2008	
AD-201014	UA-201123	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		29	1	0	0	Unexpanded	A	5/20/2008	
AD-201014	UA-201124	S - Flowerbed	S - Flowerbed	19	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	9	6	0	0	Unexpanded/Potting soil mix Homeowner purchase	B1	5/20/2008	
AD-201014	UA-201125	S - Flowerbed	S - Flowerbed	27	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	23	7	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	5/20/2008	
AD-201014	UA-201126	S - Garden	S - Garden	0	2	8	0	Unexpanded/Potting soil mix Homeowner purchase	24	6	0	0	Unexpanded/Potting soil mix Homeowner purchase		5/20/2008	
AD-201049	UA-201593	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/23/2008	
AD-201049	UA-201594	S - Garden	S - Garden	15	0	0	0	N/A	29	1	0	0	Expanded Unknown Source	A	7/23/2008	
AD-201049	UA-201595	L - Maintained or mowed fields	L - Maintained or mowed fields	30	0	0	0	N/A	30	0	0	0	N/A	A	7/23/2008	
AD-201049	UA-201596	S - Flowerbed	S - Flowerbed	0	6	0	0	Unexpanded/Potting soil mix Homeowner purchase	30	0	0	0	N/A		7/23/2008	
AD-201096	UA-201789	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-201096	UA-201790	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-201096	UA-201791	C - Former garden	C - Former garden	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-201096	UA-201792	S - Flower pot	S - Flower pot	5	3	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	2	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-201096	UA-201793	S - Flowerbed	S - Flowerbed	10	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-201098	UA-201426	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-201098	UA-201427	S - Garden	S - Garden	15	0	0	0	N/A	6	0	0	0	N/A	B1	7/17/2008	
AD-201098	UA-201428	S - Garden	S - Garden	30	0	0	0	N/A	26	4	0	0	Expanded Unknown Source	A	7/17/2008	
AD-201098	UA-201429	S - Flower pot	S - Flower pot	27	6	1	0	Unexpanded/Potting soil mix Homeowner purchase	29	1	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-201098	UA-201430	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B2	7/17/2008	

PropertyID	Location_2007_ Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate 2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-201098	UA-201431	S - Flowerbed	S - Flowerbed	25	5	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	6	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/17/2008	
AD-201098	UA-201432	S - Water Utility Aggregate/Soil	S - Water Utility Aggregate/Soil	20	0	0	0	N/A	5	0	0	0	N/A	A	7/17/2008	
AD-201108	UA-201744	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-201108	UA-201745	L - Overgrown areas	L - Overgrown areas	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-201108	UA-201746	S - Flowerbed	S - Flowerbed	12	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	16	14	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/17/2008	
AD-201108	UA-201747	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-201112	UA-201694	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/23/2008	
AD-201112	UA-201695	L - Pasture or field	L - Pasture or field	30	0	0	0	N/A	30	0	0	0	N/A	A	7/23/2008	
AD-201112	UA-201696	S - Flowerbed	S - Flowerbed	12	0	0	0	N/A	30	0	0	0	N/A	A	7/23/2008	
AD-201112	UA-201697	S - Flower pot	S - Flower pot	0	8	0	0	Unexpanded	7	6	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/23/2008	
AD-201113	UA-201588	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/24/2008	
AD-201113	UA-201589	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/24/2008	
AD-201113	UA-201590	L - Overgrown areas	L - Overgrown areas	30	0	0	0	N/A	30	0	0	0	N/A	A	7/24/2008	
AD-201113	UA-201591	S - Flowerbed	S - Flowerbed	0	1	0	0	Unexpanded/Potting soil mix Homeowner purchase	6	1	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/24/2008	
AD-201149	UA-201654	C - Yard (front, back, side)	C - Yard (front, back, side)	0	30	0	0	Unexpanded	30	0	0	0	N/A	A	7/22/2008	
AD-201149	UA-201655	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	19	11	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/22/2008	
AD-201149	UA-201656	S - Garden	S - Garden	30	0	0	0	N/A	20	0	0	0	N/A	A	7/22/2008	
AD-201149	UA-201657	S - Garden	S - Garden	0	0	0	30	Unexpanded	27	3	0	0	Unexpanded		7/22/2008	MAS conducted VV_Reinspection QC on 7/31/2008.
AD-201149	UA-201658	S - Flower pot	S - Flower pot	0	30	10	0	Unexpanded/Potting soil mix Homeowner purchase	13	17	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/22/2008	
AD-201150	UA-201499	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/21/2008	
AD-201150	UA-201500	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/21/2008	
AD-201150	UA-201501	S - Flowerbed	S - Flowerbed	25	0	0	5	Expanded unknown source	27	3	0	0	Expanded Unknown Source		7/21/2008	
AD-201150	UA-201502	S - Flower pot	S - Flower pot	0	10	0	0	Unexpanded	0	30	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/21/2008	
AD-201150	UA-201503	S - Defined play area	S - Defined play area	5	0	0	0	N/A	10	0	0	0	N/A	B1	7/21/2008	
AD-201154	UA-201603	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/21/2008	
AD-201154	UA-201604	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/21/2008	
AD-201154	UA-201605	S - Flower pot	S - Flower pot	0	2	0	0	Unexpanded/Potting soil mix Homeowner purchase	4	0	0	0	N/A		7/21/2008	
AD-201157	UA-201606	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	29	1	0	0	Expanded Unknown Source	A	7/21/2008	
AD-201157	UA-201607	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	11	7	0	0	Expanded Unknown Source	A	7/21/2008	
AD-201157	UA-201608	S - Flower pot	S - Flower pot	9	5	0	0	Unexpanded/Potting soil mix Homeowner purchase	0	12	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/21/2008	
AD-201157	UA-201610	L - Underneath porches or decks	L - Underneath porches or decks	12	0	0	0	N/A	19	1	0	0	Expanded Unknown Source	A	7/21/2008	
AD-201158	UA-201494	S - Flower pot	S - Flower pot	2	8	0	0	Unexpanded	4	14	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/21/2008	
AD-201158	UA-201495	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	B2	7/21/2008	
AD-201158	UA-201496	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/21/2008	
AD-201158	UA-201497	S - Garden	S - Garden	10	0	0	0	N/A	10	0	0	0	N/A	B1	7/21/2008	
AD-201158	UA-201498	S - Garden	S - Flowerbed	0	0	1	0	N/A	26	4	0	0	Unexpanded/Potting soil mix Homeowner purchase		7/21/2008	Not sampled due to VV in flower gardens (309sqft);
AD-201176	UA-201915	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0		30	0	0	0	N/A	A	7/20/2008	
AD-201176	UA-201916	S - Garden	S - Garden	12	10	5	0		28	2	0	0	Expanded Unknown Source		7/20/2008	
AD-201176	UA-201917	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/20/2008	
AD-201176	UA-201918	S - Flowerbed	S - Flowerbed	12	10	0	0	Expanded unknown source	30	0	0	0	N/A		7/20/2008	
AD-201176	UA-201919	S - Flower pot	S - Flower pot	12	0	0	0		19	0	0	0	N/A	B1	7/20/2008	
AD-201176	UA-201920	C - Walkway (unpaved)	C - Walkway (unpaved)	30	0	0	0		30	0	0	0	N/A	B1	7/20/2008	
AD-201185	UA-200254	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	B1	7/21/2008	

PropertyID	Location_2007_Location	LocationDescription2007	LocationDescription_2008	VV_None2007	VV_Low2007	VV_Intermediate2007	VV_High2007	VV_Desc2007	VV_None2008	VV_Low2008	VV_Intermediate2008	VV_High2008	VV_Desc2008	Bin	VV_BIN_Reinspection	LocationComment
AD-201185	UA-200255	S - Flowerbed	S - Flowerbed	10	0	0	0		0	15	0	0	Expanded Unknown Source	A	7/21/2008	
AD-201185	UA-200256	S - Garden	S - Garden	0	0	0	1		17	13	0	0	Expanded Unknown Source		7/21/2008	Not sampled b/c "VV high throughout garden area";
AD-201185	UA-200257	S - Garden	S - Garden	30	0	0	0		16	8	6	0	Expanded Unknown Source	A	7/21/2008	
AD-201185	UA-200258	S - Driveway (unpaved)	S - Driveway (unpaved)	22	4	0	4	Unexpanded/Potting soil mix Homeowner purchase	24	6	0	0	Expanded Unknown Source	A	7/21/2008	
AD-201185	UA-200259	S - Flower pot	S - Flower pot	5	0	0	0		6	4	0	0	Expanded Unknown Source	A	7/21/2008	
AD-201185	UA-200260	S - Garden	S - Garden	0	0	0	1		0	30	0	0	Expanded Unknown Source		7/21/2008	Not sampled b/c "VV high throughout row crop garde
AD-201189	UA-201622	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/17/2008	
AD-201189	UA-201623	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/17/2008	
AD-201189	UA-201624	S - Flowerbed	S - Flowerbed	30	0	0	0	N/A	11	4	0	0	Unexpanded/Potting soil mix Homeowner purchase	A	7/17/2008	
AD-201189	UA-201625	S - Garden	S - Garden	30	0	0	0	N/A	20	0	0	0	N/A	B1	7/17/2008	
AD-201193	UA-200743	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0		30	0	0	0	N/A	A	7/22/2008	
AD-201193	UA-200744	S - Flowerbed	S - Flowerbed	30	0	0	0		10	0	0	0	N/A	B1	7/22/2008	
AD-201193	UA-200746	S - Driveway (unpaved)	S - Driveway (unpaved)	15	0	0	0		30	0	0	0	N/A	A	7/22/2008	
AD-201193	UA-200748	S - Flowerbed	S - Flowerbed	5	0	0	0		30	0	0	0	N/A	A	7/22/2008	
AD-201193	UA-200749	S - Driveway (unpaved)	S - Driveway (unpaved)	10	0	0	0		30	0	0	0	N/A	B1	7/22/2008	
AD-201193	UA-201486	S - Driveway (unpaved)	S - Driveway (unpaved)	27	3	0	0	Unexpanded	30	0	0	0	N/A	A	7/22/2008	
AD-201193	UA-201487	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	30	0	0	0	N/A	B1	7/22/2008	
AD-201193	UA-201488	L - Underneath porches or decks	L - Underneath porches or decks	5	0	0	0	N/A	15	0	0	0	N/A	A	7/22/2008	
AD-201193	UA-201489	S - Flowerbed	S - Flowerbed	10	4	0	1	Unexpanded	30	0	0	0	N/A		7/22/2008	
AD-201193	UA-201490	S - Water Utility Aggregate/Soil	S - Water Utility Aggregate/Soil	10	0	0	0	N/A	15	0	0	0	N/A	A	7/22/2008	
AD-201210	UA-201895	C - Yard (front, back, side)	C - Yard (front, back, side)	30	0	0	0	N/A	27	3	0	0	Expanded Unknown Source	A	7/23/2008	
AD-201210	UA-201896	S - Driveway (unpaved)	S - Driveway (unpaved)	30	0	0	0	N/A	30	0	0	0	N/A	A	7/23/2008	
AD-201210	UA-201897	C - Former House Foundation	C - Former House Foundation	0	0	0	30	Unexpanded	15	15	0	0	Expanded Unknown Source		7/23/2008	Not sampled because field team indicated SUA; 7/23/08 contained zonalite. When torn down soil was placed overtop and buried. Still contains visuals.
AD-201210	UA-201898	S - Flowerbed	C - Former flowerbed	12	0	0	0	N/A	12	0	0	0	N/A	A	7/23/2008	

**ATTACHMENT**  
**CDM Field Audit Reports**



## Memorandum

*To: Mark Raney, Volpe*

*From: Nicole Bein, CDM*

*Date: July 31, 2008*

*Subject: Troy Visual Vermiculite Investigation, First Event*

From July 15 – 16, 2008, CDM Federal Programs Corporation (CDM) conducted visual inspections for vermiculite in soils at eight properties in Troy. The inspections were conducted in accordance with the *Final Troy Asbestos Property Evaluation (TAPE) Work Plan*, dated July 9, 2007 and strongly focusing on *Standard Operating Procedure CDM-Libby-06, Revision 1 Semi-Quantitative Estimation of Vermiculite in Soils at Residential and Commercial Properties* dated May 10, 2007. The following properties were inspected as part of this investigation:

- AD-200065, Owner: Rice
- AD-200184, Owner: Belmont
- AD-200249, Owner: Higgins
- AD-200133, Owner: Hartung
- AD-200689, Owner: Vogel
- AD-201095, Owner: Dupert
- AD-200614, Owner: Welch
- AD-201066, Owner: Welch

The objective of the inspections was for CDM to independently assess the location and quantities of visual vermiculite at several properties in Troy as a quality control measure for the TAPE inspections performed by Tetra Tech EMI (TTEMI). This investigation was the first of two scheduled inspections by CDM. The latter inspection is scheduled to take place in August 2008 at an additional eight properties.

## **Bounds of Investigations**

The inspections were limited to the eight properties listed above. Property selection was based on the quantity of vermiculite (i.e., none, low, intermediate, high) identified during the 2008 TAPE inspection. Information regarding visual vermiculite information on field sketches provided by TTEMI was redacted and distributed to the CDM inspection team members. CDM inspection team members were provided with the use areas as classified at the time of the TAPE and inspections took place in those use areas previously identified as access permitted. All observations of vermiculite were recorded on the field sketches provided by TTEMI and dimensions of the use areas were not verified by CDM.

Interior surfaces such as garages, sheds and pump houses were also inspected as access permitted, but crawlspaces were not. In each use area, 30 locations were randomly inspected that were evenly representative of that land use area. Corresponding soil samples were not collected as part of this investigation. When conditions did not allow for 30 point inspections (PIs) (e.g., access, small surficial area) field judgment was used to attain the maximum number of PIs possible. Out of the 70 use areas inspected by CDM, 24 were not able to be fully characterized with 30 PIs and the circumstances of each are outlined below.

Documentation at each property consisted of logbook entries, photographs, field sketches, and corresponding Visual Vermiculite Estimations Forms (VVEFs). All visual vermiculite information including the field sketch, VVEF and comparison of inspection results per property is presented in appendices attached to this letter report.

## **Summary of Findings**

*AD-200065*

Inspection of the Rice property was conducted on July 15, 2008. The five use areas identified by the TAPE were all inspected. One non-use area was identified but did not require inspection. In addition, the interior surfaces of the garage and lean-to north of the house were inspected because soil floors were observed by the field team. Due to the limited square footage of two specific use areas (SUAs), a total of 30 PIs could not be inspected in two of the five use areas. Visual vermiculite was not identified in any of the use areas by CDM or TTEMI. A summary of the PIs listed by use areas is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202515	Driveway (unpaved)	Specific Use Areas	6000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202516	Yard (front, back, side)	Common Use Areas	57380	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202517	Flowerbed	Specific Use Areas	46	20	0	0	0	20
CDM					10	0	0	0	10
TTEMI	UA-202518	Underneath porches or decks	Limited Use Areas	750	10	0	0	0	10
CDM					30	0	0	0	30
TTEMI	UA-202519	Flower pot	Specific Use Areas	84	7	0	0	0	7
CDM					15	0	0	0	15
TTEMI	UA-202521	Un-maintained fields	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0
TTEMI	BD-202198	Garage	Interior Surface	750	Not inspected				0
CDM					30	0	0	0	30
TTEMI	Not assigned	Lean to	Interior Surface	168	Not inspected				0
CDM					30	0	0	0	30

AD-200184

Inspection of the Belmont property was conducted on July 15, 2008. The eight use areas identified by the TAPE were all inspected. Due to the limited square footage of two SUAs and access restrictions underneath the porch, a total of 30 PIs could not be inspected in three of the eight use areas. Visual vermiculite was identified at low levels in three use areas by CDM. A summary of the PIs listed by use areas is provided in the table below.



Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202184	Yard (front, back, side)	Common Use Areas	122000	30	0	0	0	30
CDM					28	2	0	0	30
TTEMI	UA-202185	Driveway (unpaved)	Specific Use Areas	3136	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202186	Garden	Specific Use Areas	226	10	20	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202187	Flowerbed	Specific Use Areas	164	14	1	0	0	15
CDM					27	3	0	0	30
TTEMI	UA-202188	Flower pot	Specific Use Areas	8	6	0	0	0	6
CDM					6	3	0	0	9
TTEMI	UA-202189	Stockpile	Specific Use Areas	200	15	0	0	0	15
CDM					30	0	0	0	30
TTEMI	UA-202190	Flowerbed	Specific Use Areas	10	8	0	0	0	8
CDM					15	0	0	0	15
TTEMI	UA-202191	Underneath porches or decks	Limited Use Areas	216	30	0	0	0	30
CDM					10	0	0	0	10

#### AD-200249

Inspection of the Higgins property was conducted on July 15, 2008. Ten out of the 11 use areas identified by the TAPE were inspected. The area underneath the porch on the east side of the house was inaccessible. One non-use area was identified but did not require inspection. In addition, the interior surface of the shed was inspected because a soil floor was observed by the field team and two SUAs that were not on the sketch provided were inspected with the adjacent SUA. Due to the limited square footage and access restrictions of the shed, defined play area, and area underneath the deck a total of 30 PIs could not be inspected in three of the 11 use areas. Visual vermiculite was identified at low to intermediate levels in two use areas by CDM. A summary of the PIs listed by use areas is provided in the table below.

Troy Visual Vermiculite Investigation Summary  
 July 31, 2008  
 Page 5

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	UA-202503	Driveway (unpaved)	Specific Use Areas	3320	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202504	Pasture or field	Limited Use Areas	4225	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202505	Pasture or field	Limited Use Areas	27000	26	3	1	0	30
CDM					30	0	0	0	30
TTEMI	UA-202506	Yard (front, back, side)	Common Use Areas	15000	28	2	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202507	Garden	Specific Use Areas	1250	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202508	Underneath porches or decks	Limited Use Areas	160	0	5	0	0	5
CDM					15	0	0	0	15
TTEMI	UA-202509	Flowerbed	Specific Use Areas	600	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202510	Flower pot	Specific Use Areas	324	4	20	3	0	27
CDM					0	0	30	0	30
TTEMI	UA-202511	Defined play area	Specific Use Areas	128	13	1	0	0	14
CDM					20	0	0	0	20
TTEMI	UA-202512	Wooded lot or managed forest land	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0
TTEMI	UA-202513	Underneath porches or decks	Limited Use Areas	180	0	1	0	0	1
CDM					Inaccessible				0
TTEMI	UA-202514	Flowerbed	Specific Use Areas	40	3	2	0	0	5
CDM					26	4	0	0	30
TTEMI	BD-202196	Shed	Interior Surface	400	Not inspected				0
CDM					15	0	0	0	15

AD-200133

Inspection of the Hartung property was conducted on July 15, 2008. Six out of the 7 use areas identified by the TAPE were inspected. The stockpile west of the house was no longer present during the inspection by CDM. Visual vermiculite was identified at low levels in three use areas by CDM. A summary of the PIs listed by use areas is provided the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202282	Driveway (unpaved)	Specific Use Areas	3700	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202283	Yard (front, back, side)	Common Use Areas	27325	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202284	Flowerbed	Specific Use Areas	50	15	0	0	0	15
CDM					29	1	0	0	30
TTEMI	UA-202285	Dog pen	Specific Use Areas	300	10	0	0	0	10
CDM					29	1	0	0	30
TTEMI	UA-202286	Stockpile	Specific Use Areas	100	10	0	0	0	10
CDM					No longer present				0
TTEMI	UA-202287	Former garden	Common Use Areas	600	13	3	0	0	16
CDM					15	15	0	0	30
TTEMI	UA-202288	Overgrown areas	Limited Use Areas	15150	30	0	0	0	30
CDM					30	0	0	0	30

AD-200689

Inspection of the Vogel property was conducted on July 16, 2008. The six use areas identified by the TAPE were all inspected. Due to the limited square footage of the flowerpot SUA, a total of 30 PIs could not be inspected in one of the six use areas. Visual vermiculite was identified at low levels in three use areas by CDM. A summary of the PIs listed by use areas is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202693	Yard (front, back, side)	Common Use Areas	8000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202694	Garden	Specific Use Areas	1000	29	1	0	0	30
CDM					29	1	0	0	30
TTEMI	UA-202695	Flower pot	Specific Use Areas	18	3	5	0	0	8
CDM					2	13	0	0	15
TTEMI	UA-202696	Driveway (unpaved)	Specific Use Areas	300	0	0	12	0	12
CDM					30	0	0	0	30
TTEMI	UA-202697	Flowerbed	Specific Use Areas	620	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202698	Flowerbed	Specific Use Areas	460	30	0	0	0	30
CDM					30	0	0	0	30

#### AD-201095

Inspection of the Dupert property was conducted on July 16, 2008. Eleven out of the 12 use areas identified by the TAPE were inspected. The flowerpot SUA measuring 6 square feet was not identified on the sketch provided and could not be differentiated area from the other flowerpot SUAs. In addition, the interior surface of the shed northeast of the house was inspected because a soil floor was observed by the field team and two SUAs that were not on the sketch provided were inspected with the adjacent SUA. Due to the limited square footage of the SUAs and shed, and the presence of dogs in another SUA, a total of 30 PIs could not be inspected in 6 of the 12 use areas. Visual vermiculite was identified at low levels in five use areas by CDM. A summary of the PIs listed by use areas is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202543	Driveway (unpaved)	Specific Use Areas	7950	28	2	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202544	Flower pot	Specific Use Areas	25	7	3	0	0	10
CDM					3	11	0	0	14
TTEMI	UA-202545	Yard (front, back, side)	Common Use Areas	21325	30	0	0	0	30
CDM					30	0	0	0	30

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	UA-202546	Yard (front, back, side)	Common Use Areas	5425	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202547	Garden	Specific Use Areas	300	18	9	3	0	30
CDM					16	14	0	0	30
TTEMI	UA-202548	Dog pen	Specific Use Areas	2800	28	2	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202549	Dog pen	Specific Use Areas	150	26	4	0	0	30
CDM					10	0	0	0	10
TTEMI	UA-202550	Flowerbed	Specific Use Areas	180	12	3	0	0	15
CDM					3	7	0	0	10
TTEMI	UA-202551	Dog pen	Specific Use Areas	100	10	0	0	0	10
CDM					5	0	0	0	5
TTEMI	UA-202552	Flower pot	Specific Use Areas	15	3	0	1	1	5
CDM					2	4	0	0	6
TTEMI	UA-202553	Flower pot	Specific Use Areas	6	3	1	0	2	6
CDM					Not identified on sketch				0
TTEMI	UA-202554	Flowerbed	Specific Use Areas	280	25	5	0	0	30
CDM					24	6	0	0	30
TTEMI	BD-202211	Shed	Interior Surface	300	Not inspected				0
CDM					10	0	0	0	10

AD-200614

Inspection of the Welch property was conducted on July 16, 2008. The 11 use areas identified by the TAPE were all inspected. In addition, the interior surface of the greenhouse was inspected because a soil floor was observed by the field team. Due to the limited square footage of the greenhouse and a flowerbed, a total of 30 PIs could not be inspected in 2 of the 11 use areas. Visual vermiculite was identified at low to intermediate levels in five use areas by CDM. A summary of the PIs listed by use areas is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	UA-202245	Garden	Specific Use Areas	1925*	19	11	0	0	30
CDM					24	0	6	0	30
TTEMI	UA-202246	Yard (front, back, side)	Common Use Areas	20856*	30	0	0	0	30
CDM					25	5	0	0	30
TTEMI	UA-202247	Stockpile	Specific Use Areas	1750	5	6	0	0	11
CDM					15	15	0	0	30
TTEMI	UA-202248	Stockpile	Specific Use Areas	1530	15	0	0	0	15
CDM					30	0	0	0	30
TTEMI	UA-202249	Stockpile	Specific Use Areas	1800	30	0	0	0	30
CDM					24	6	0	0	30
TTEMI	UA-202250	Driveway (unpaved)	Specific Use Areas	9402	20	7	0	0	27
CDM					29	1	0	0	30
TTEMI	UA-202251	Garden	Specific Use Areas	2400	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202252	Flowerbed	Specific Use Areas	14	7	0	0	0	7
CDM					15	0	0	0	15
TTEMI	UA-202253	Garden	Specific Use Areas	5225	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202254	Stockpile	Specific Use Areas	1575	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202255	Yard (front, back, side)	Common Use Areas	4000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	BD-202149	Greenhouse	Interior Surface	250	Not inspected				0
CDM					5	0	0	0	5

\*A portion of UA-202246 was inspected with UA-202245 during inspection conducted by CDM.

#### AD-201066

Inspection of the Welch property was conducted on July 16, 2008. The 10 use areas identified by the TAPE were all inspected. One non-use area was identified but did not require inspection. Due to the limited square footage of 6 SUAs and access restrictions underneath the deck, a total of 30 PIs could not be inspected in 7 of the 10 use areas. Visual vermiculite was identified at low levels in one use area by CDM. A summary of the PIs listed by use areas is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
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Troy Visual Vermiculite Investigation Summary  
 July 31, 2008  
 Page 10

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202173	Driveway (unpaved)	Specific Use Areas	7500	29	1	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202174	Yard (front, back, side)	Common Use Areas	98674	25	5	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202175	Flowerbed	Specific Use Areas	10	12	3	0	0	15
CDM					5	0	0	0	5
TTEMI	UA-202176	Garden	Specific Use Areas	1200	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202177	Flower pot	Specific Use Areas	10	3	7	0	0	10
CDM					4	1	0	0	5
TTEMI	UA-202178	Wooded lot or managed forest land	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0
TTEMI	UA-202179	Stockpile	Specific Use Areas	300	30	0	0	0	30
CDM					20	0	0	0	20
TTEMI	UA-202180	Stockpile	Specific Use Areas	100	10	0	0	0	10
CDM					20	0	0	0	20
TTEMI	UA-202181	Wood Splitting Area	Specific Use Areas	224	20	0	0	0	20
CDM					5	0	0	0	5
TTEMI	UA-202182	Lean to	Specific Use Areas	800	30	0	0	0	30
CDM					20	0	0	0	20
TTEMI	UA-202183	Underneath deck	Limited Use Areas	144	14	1	0	0	15
CDM					20	0	0	0	20

## Conclusions

Overall, the comparison of inspection results in use areas where vermiculite was observed showed that the semi-quantitative estimations varied. Variations in identification and quantification of vermiculite between the two investigations may be attributed to one or more of the following:

- Variability of the site conditions during each investigation (e.g., soil moisture, cloud cover)
- Heterogeneity of vermiculite distribution within each use area
- Inability of field teams to exactly replicate the PIs during each inspection
  - Exact locations of PIs are not recorded on field sketches and are intended to be random but representative of that use area
  - PIs performed by TTEMI were removed from each site as part of the soil sample
- Variability in field judgment of which locations to select, what to classify as vermiculite and how to assign semi-quantitative levels
- Variability of PI density given access restrictions and limited areas to sample in smaller use areas
- Inclusion of use areas such as flowerpots that are frequently moved or replaced by homeowners
- Inclusion of interior surface areas (e.g., shed floor) by CDM that TTEMI did not characterize

## Attachments

Attachment A – Investigation Comparison Tables, VVEFs, Field Sketches

Attachment B – Field Logbook Notes

cc: Courtney Zamora- Volpe Center, Libby  
Dee Warren – CDM, Denver  
Thomas Cook – CDM, Libby  
CDM Project File – Denver



Attachment A- Investigation Comparison Tables,  
VVEFs, Field Sketches

Visual Vermiculite Summary By Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200065	UA-202515	Driveway (unpaved)	Specific Use Areas	6000	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200065	UA-202516	Yard (front, back, side)	Common Use Areas	57380	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200065	UA-202517	Flowerbed	Specific Use Areas	46	20	0	0	0	20
CDM						10	0	0	0	10
TTEMI	AD-200065	UA-202518	Underneath porches or decks	Limited Use Areas	750	10	0	0	0	10
CDM						30	0	0	0	30
TTEMI	AD-200065	UA-202519	Flower pot	Specific Use Areas	84	7	0	0	0	7
CDM						15	0	0	0	15
TTEMI	AD-200065	UA-202521	Un-maintained fields	Non-use Areas	N/A	0	0	0	0	0
CDM						0	0	0	0	0
TTEMI	AD-200065	BD-202198	Garage	Interior Surface	750	Not inspected				0
CDM						30	0	0	0	30
TTEMI	AD-200065	Not assigned	Lean to	Interior Surface	168	Not inspected				0
CDM						30	0	0	0	30

PI- Point Inspection

Property ID, Location ID, and square footages per area provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101031</u>	Page No.: <u>3</u>	Site Visit Date: <u>7/15/2008</u>	BD Number: _____
Address: <u>AD-200065</u>	Structure Description: <u>Property</u>		
Occupant: <u>Rice</u>	Phone No.: <u>NA</u>		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>NA</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Pre-Design Inspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): <u>N. Bein</u>		

		Zone 1 UA-202515	Zone 2 UA-202518	Zone 3 UA-202519	Zone 4 UA-202516	Zone 5 UA-202517	Zone 6 BD-202198	Zone 7 UA# not assigned	Zone 8
Type (SUA/CUA/LUA/ISA)		SUA	ISA	SUA	CUA	SUA	ISA	ISA	
Description		DRIVEWAY	DECK	FLOWERPOTS	YARD	FLOWERBED	GARAGE	LEAN-TO	
Area Size (square feet)		6000	750	84	57380	46	750	168	
General Comment (Cover, etc.)		STRUCTURAL FILL	COMMON FILL	POTTING SOIL	GRASS	TOPSOIL	STRUCTURAL FILL	TOPSOIL	
Pls (X=None, L=Low, M=Intermediate, H=High)	X	30	30	15	30	10	30	30	
	L	0	0	0	0	0	0	0	
	M	0	0	0	0	0	0	0	
	H	0	0	0	0	0	0	0	
Total		30	30	15	30	10	30	30	0

Areas previously identified for removal not inspected for visible vermiculite?

N/A

Location(s):

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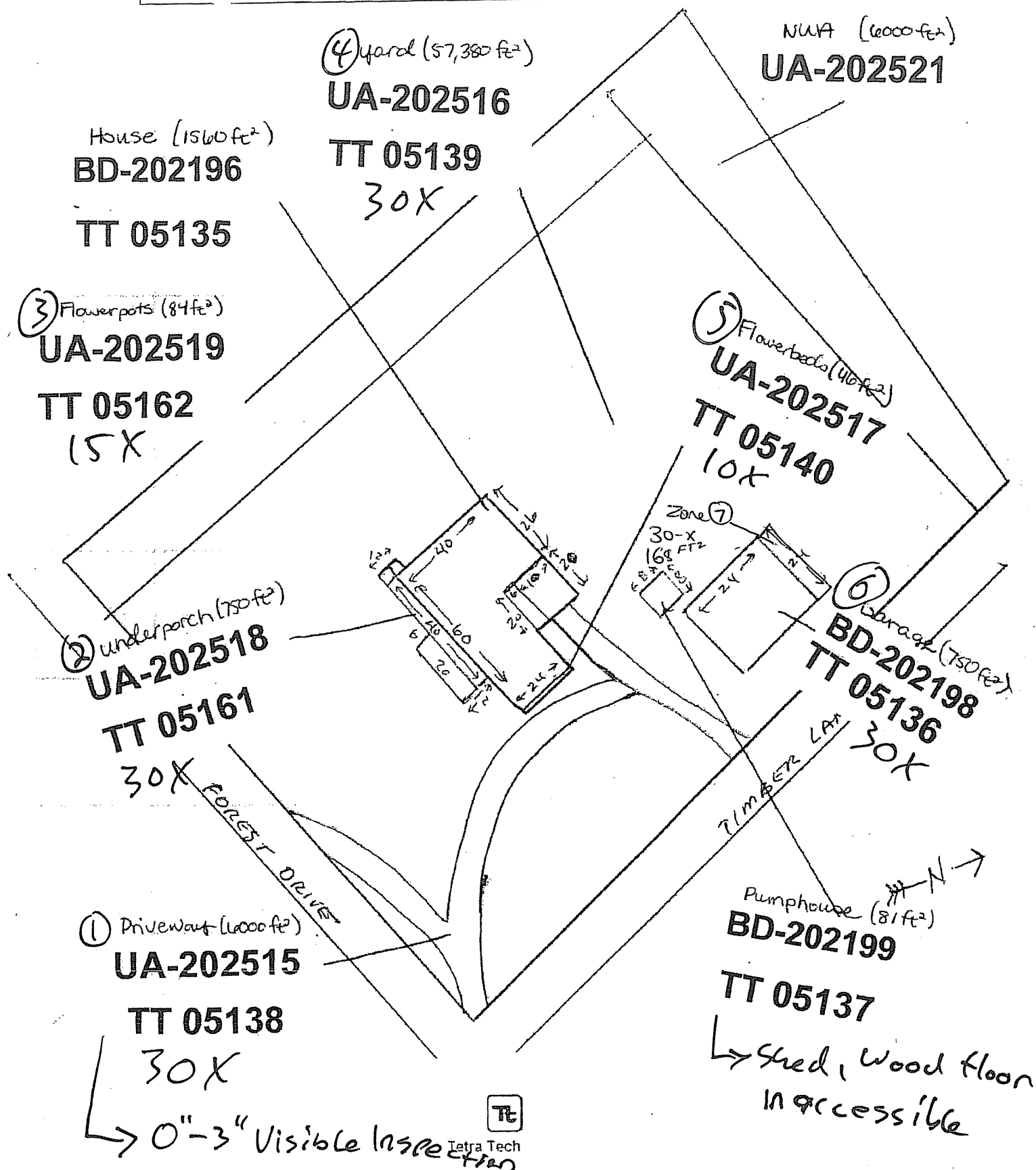


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7-15-08  
Logbook 10/03/ pg. 3

CDM team: D. Shortman, S. Wilson  
TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD

	Field Personnel	Date
AD-200065	ALB, SAH, TB, NTS	06/16/08



Visual Vermiculite Summary By Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200184	UA-202184	Yard (front, back, side)	Common Use Areas	122000	30	0	0	0	30
CDM						28	2	0	0	30
TTEMI	AD-200184	UA-202185	Driveway (unpaved)	Specific Use Areas	3136	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200184	UA-202186	Garden	Specific Use Areas	226	10	20	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200184	UA-202187	Flowerbed	Specific Use Areas	164	14	1	0	0	15
CDM						27	3	0	0	30
TTEMI	AD-200184	UA-202188	Flower pot	Specific Use Areas	8	6	0	0	0	6
CDM						6	3	0	0	9
TTEMI	AD-200184	UA-202189	Stockpile	Specific Use Areas	200	15	0	0	0	15
CDM						30	0	0	0	30
TTEMI	AD-200184	UA-202190	Flowerbed	Specific Use Areas	10	8	0	0	0	8
CDM						15	0	0	0	15
TTEMI	AD-200184	UA-202191	Underneath porches or decks	Limited Use Areas	216	30	0	0	0	30
CDM						10	0	0	0	10

PI- Point Inspection

Property ID, Location ID, and square footages per area provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101031</u>	Page No.: <u>4</u>	Site Visit Date: <u>7/15/2008</u>	BD Number: _____
Address: <u>AD-200184</u>	Structure Description: <u>Property</u>		
Occupant: <u>Belmont</u>	Phone No.: <u>NA</u>		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>NA</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Pre-Design Inspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-202185	Zone 2 UA-202190	Zone 3 UA-202184	Zone 4 UA-202188	Zone 5 UA-202189	Zone 6 UA-202186	Zone 7 UA-202191	Zone 8 UA-202187
Type (SUA/CUA/LUA/ISA)		SUA	CUA	CUA	SUA	CUA	SUA	ISA	SUA
Description		DRIVEWAY	YARD	YARD	FLOWERPOTS	YARD	FLOWERBED	DECK	FLOWERBED
Area Size (square feet)		3136	10	122000	8	200	306	216	104
General Comment (Cover, etc.)		STRUCTURAL FILL	GRASS	GRASS	POTTING SOIL	COMMON FILL	TOPSOIL	COMMON FILL	TOPSOIL
Pls (X=None, L=Low, M=Intermediate, H=High)	X	30	15	28	6	30	30	10	27
	L	0	0	2	3	0	0	0	3
	M	0	0	0	0	0	0	0	0
	H	0	0	0	0	0	0	0	0
Total		30	15	30	9	30	30	10	30

Areas previously identified for removal not inspected for visible vermiculite?

N/A

Location(s):

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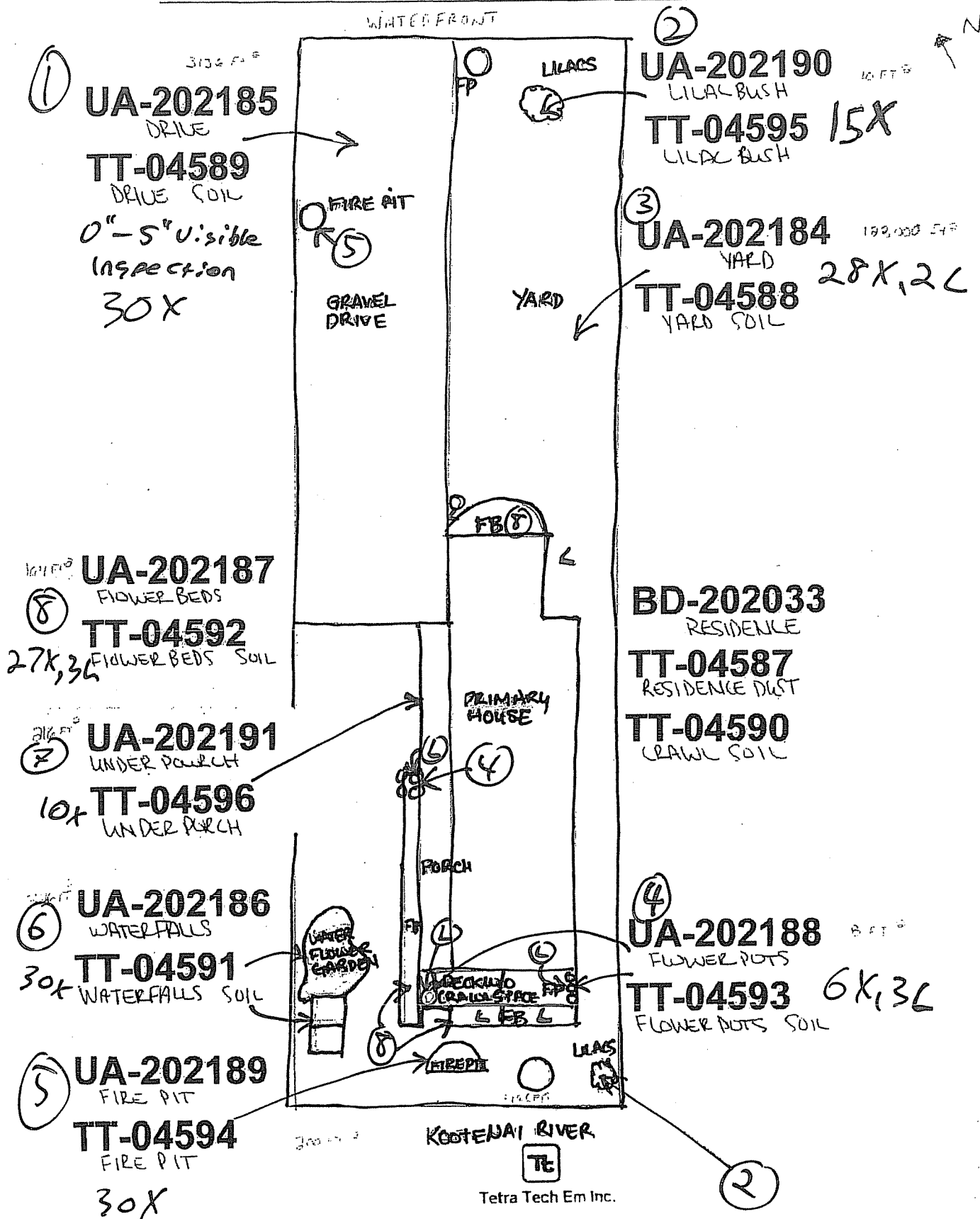
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7-15-08  
Logbook 101031 pg. 4

CDM team: D. Shortman, S. Wilson

TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD

AD-200184	Field Personnel J. A. S. J. A. L. B. J. R. J. A. L. B.	Date 6/13/08
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Visual Vermiculite Summary By Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200249	UA-202503	Driveway (unpaved)	Specific Use Areas	3320	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200249	UA-202504	Pasture or field	Limited Use Areas	4225	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200249	UA-202505	Pasture or field	Limited Use Areas	27000	26	3	1	0	30
CDM						30	0	0	0	30
TTEMI	AD-200249	UA-202506	Yard (front, back, side)	Common Use Areas	15000	28	2	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200249	UA-202507	Garden	Specific Use Areas	1250	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200249	UA-202508	Underneath porches or decks	Limited Use Areas	160	0	5	0	0	5
CDM						15	0	0	0	15
TTEMI	AD-200249	UA-202509	Flowerbed	Specific Use Areas	600	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200249	UA-202510	Flower pot	Specific Use Areas	324	4	20	3	0	27
CDM						0	0	30	0	30
TTEMI	AD-200249	UA-202511	Defined play area	Specific Use Areas	128	13	1	0	0	14
CDM						20	0	0	0	20
TTEMI	AD-200249	UA-202512	Wooded lot or managed forest lan	Non-use Areas	N/A	0	0	0	0	0
CDM						0	0	0	0	0
TTEMI	AD-200249	UA-202513	Underneath porches or decks	Limited Use Areas	180	0	1	0	0	1
CDM						inaccessible				0
TTEMI	AD-200249	UA-202514	Flowerbed	Specific Use Areas	40	3	2	0	0	5
CDM						26	4	0	0	30
TTEMI	AD-200249	BD-202196	Shed	Interior Surface	400	Not inspected				0
CDM						15	0	0	0	15

PI- Point Inspection

Property ID, Location ID, and square footages per area provided by TTEMI



**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101031</u>	Page No.: <u>5</u>	Site Visit Date: <u>7/15/2008</u>	BD Number: _____
Address: <u>AD-200249</u>	Structure Description: <u>Property</u>		
Occupant: <u>Higgins</u>	Phone No.: <u>NA</u>		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>NA</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-202504	Zone 2 BD-202196	Zone 3 UA-202503	Zone 4 UA-202508	Zone 5 UA-202511	Zone 6 UA-202507	Zone 7 UA-202506	Zone 8 UA-202505
Type (SUA/CUA/LUA/ISA)		LUA	ISA	SUA	ISA	SUA	SUA	CUA	LUA
Description		FIELD	SHED	DRIVEWAY	DECK	PLAY AREA	GARDEN	YARD	FIELD
Area Size (square feet)		4225	400	3320	160	128	1250	15000	27000
General Comment (Cover, etc.)		GRASS	STRUCTURAL FILL	STRUCTURAL FILL	COMMON FILL	SAND	TOPSOIL	GRASS	GRASS
Pls (X=None, L=Low, M=Intermediate, H=High)	X	30	15	30	15	20	30	30	30
	L	0	0	0	0	0	0	0	0
	M	0	0	0	0	0	0	0	0
	H	0	0	0	0	0	0	0	0
Total		30	15	30	15	20	30	30	30

Areas previously identified for removal not inspected for visible vermiculite?

N/A

Location(s):

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**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101031</u>	Page No.: <u>5</u>	Site Visit Date: <u>7/15/2008</u>	BD Number: <u>0</u>
Address: <u>AD-200249</u>	Structure Description: <u>Property</u>		
Occupant: <u>Higgins</u>	Phone No.: <u>NA</u>		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>NA</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): <u>0</u>		

		Zone 9 UA-202509	Zone 10 UA-202514	Zone 11 UA-202510	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
Type (SUA/CUA/LUA/ISA)		SUA	SUA	SUA					
Description		FLOWERBED	FLOWERBED	FLOWERPOTS					
Area Size (square feet)		300	300	324					
General Comment (Cover, etc.)		TOPSOIL	TOPSOIL	POTTING SOIL					
Pls (X=None, L=Low, M=Intermediate, H=High)	X	30	26	0					
	L	0	4	0					
	M	0	0	30					
	H	0	0	0					
Total		30	30	30	0	0	0	0	0

Areas previously identified for removal not inspected for visible vermiculite?

N/A

Location(s):

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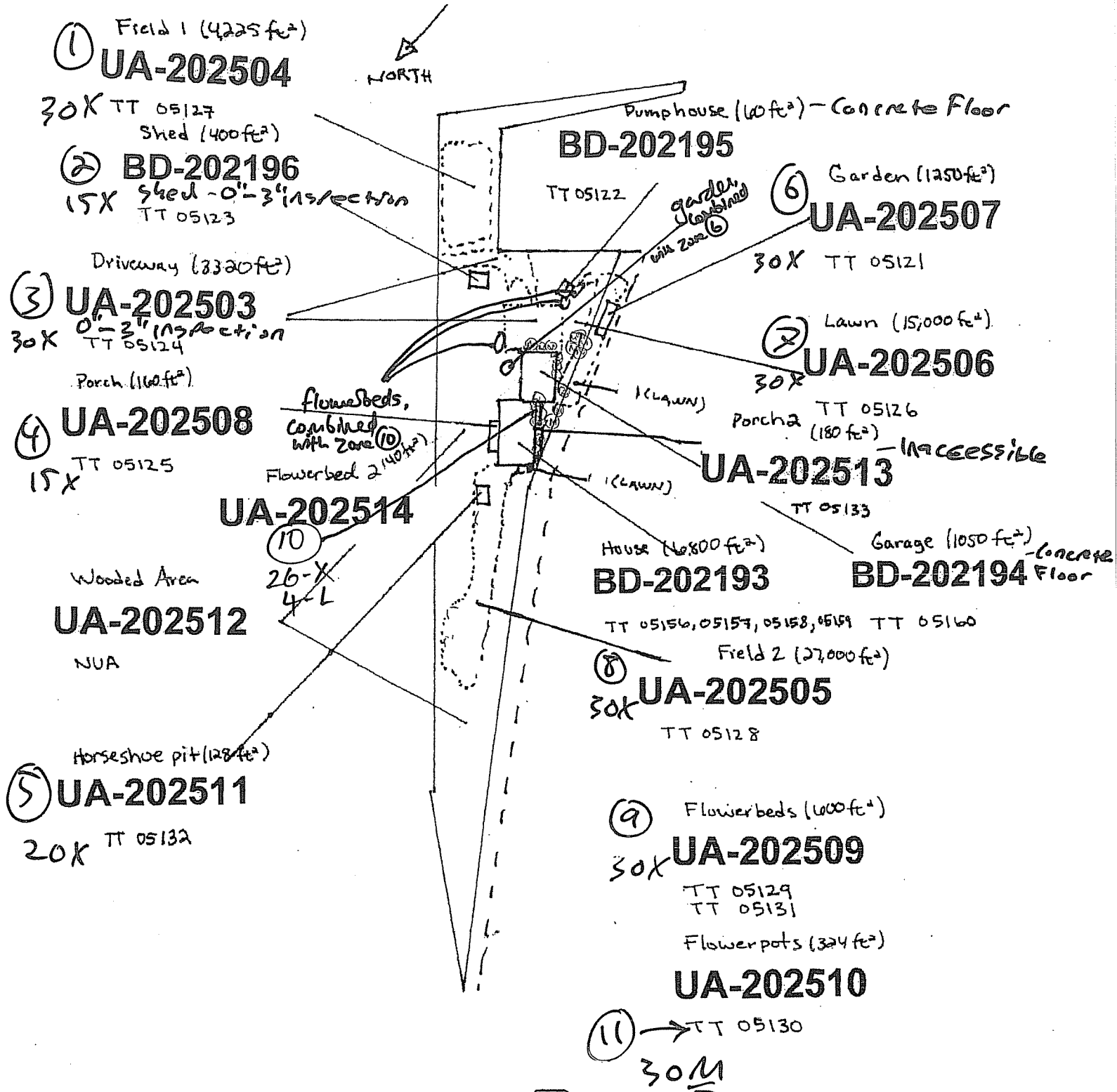


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7-15-08  
Logbook 101031 pg. 5

CDM team: D. Shortman, S. Wilson  
TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD

AD-200249	Field Personnel CBM, CM, SAH, ALB. LT	Date June 13, 2008
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Visual Vermiculite Summary By Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200133	UA-202282	Driveway (unpaved)	Specific Use Areas	3700	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200133	UA-202283	Yard (front, back, side)	Common Use Areas	27325	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200133	UA-202284	Flowerbed	Specific Use Areas	50	15	0	0	0	15
CDM						29	1	0	0	30
TTEMI	AD-200133	UA-202285	Dog pen	Specific Use Areas	300	10	0	0	0	10
CDM						29	1	0	0	30
TTEMI	AD-200133	UA-202286	Stockpile	Specific Use Areas	100	10	0	0	0	10
CDM					no longer present					0
TTEMI	AD-200133	UA-202287	Former garden	Common Use Areas	600	13	3	0	0	16
CDM						15	15	0	0	30
TTEMI	AD-200133	UA-202288	Overgrown areas	Limited Use Areas	15150	30	0	0	0	30
CDM						30	0	0	0	30

PI- Point Inspection

Property ID, Location ID, and square footages per area provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101031</u>	Page No.: <u>6</u>	Site Visit Date: <u>7/15/2008</u>	BD Number: _____
Address: <u>AD-200133</u>	Structure Description: <u>Property</u>		
Occupant: <u>Hartung</u>	Phone No.: <u>NA</u>		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>NA</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Pre-Design Inspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-202285	Zone 2 UA-202287	Zone 3 UA-202288	Zone 4 UA-202282	Zone 5 UA-202284	Zone 6 UA-202283	Zone 7	Zone 8
Type (SUA/CUA/LUA/ISA)		SUA	SUA	LUA	SUA	SUA	CUA		
Description		DOG PEN	FORMER GARDEN	FIELD	DRIVEWAY	FLOWERBED	YARD		
Area Size (square feet)		300	600	15150	3700	50	27325		
General Comment (Cover, etc.)		COMMON FILL	TALL GRASS	TALL GRASS	STRUCTURAL FILL	TOPSOIL	GRASS		
Pls (X=None, L=Low, M=Intermediate, H=High)	X	29	15	30	30	29	30		
	L	1	15	0	0	1	0		
	M	0	0	0	0	0	0		
	H	0	0	0	0	0	0		
Total		30	30	30	30	30	30	0	0

Areas previously identified for removal not inspected for visible vermiculite?

N/A

Location(s):

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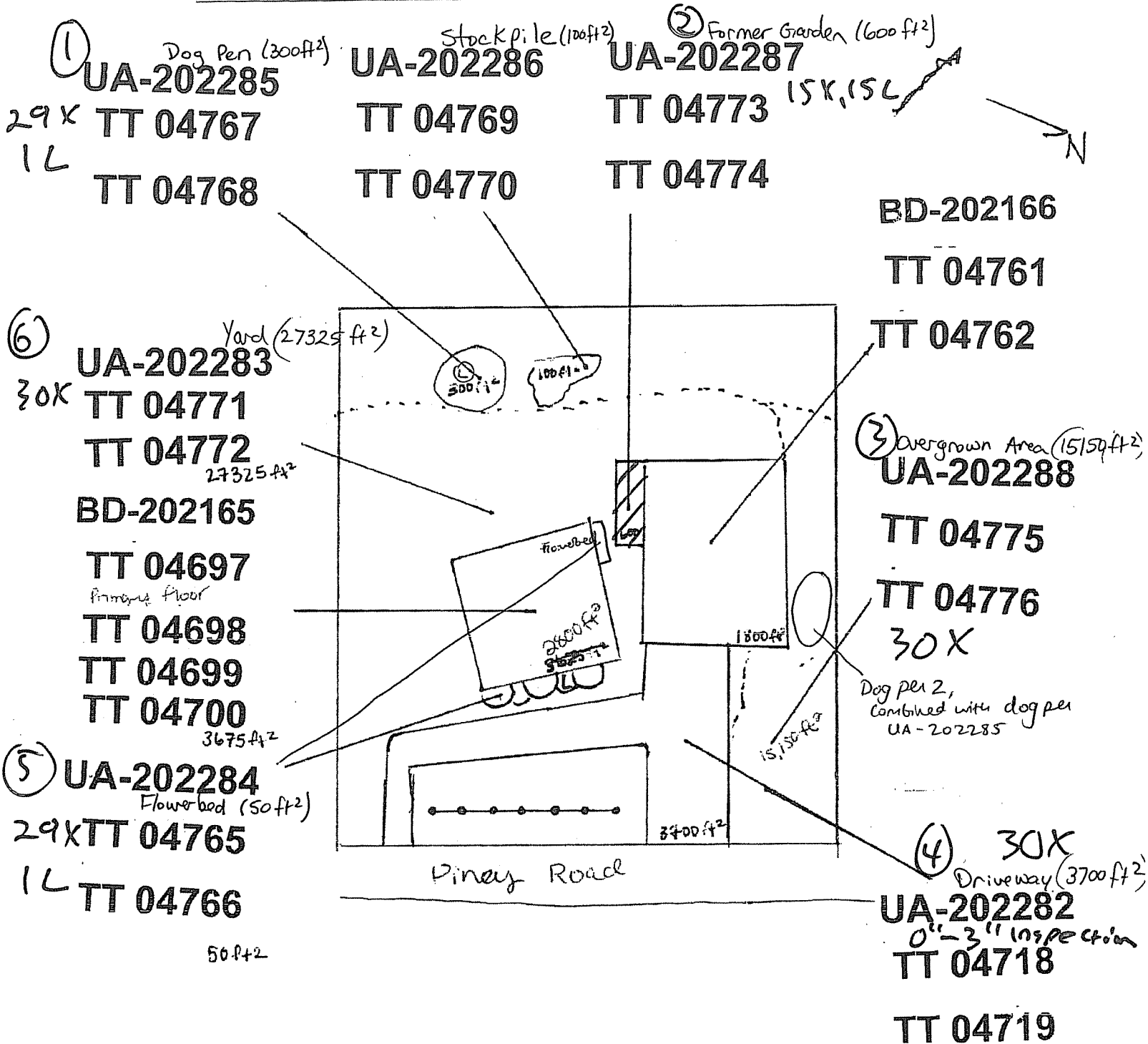
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7-15-08  
Logbook 101031 pg. 6

CDM team: D. Shortman, S. Wilson

TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD

AD-200133	Field Personnel CEM, ALB, SAH, JR, LJ	Date June 5, 2008
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Note: Stockpile UA-202286 Does NOT Exist

L = Low VCS Point



Tetra Tech Em Inc.

= Wide spread Low VCS

Visual Vermiculite Summary By Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200689	UA-202693	Yard (front, back, side)	Common Use Areas	8000	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200689	UA-202694	Garden	Specific Use Areas	1000	29	1	0	0	30
CDM						29	1	0	0	30
TTEMI	AD-200689	UA-202695	Flower pot	Specific Use Areas	18	3	5	0	0	8
CDM						2	13	0	0	15
TTEMI	AD-200689	UA-202696	Driveway (unpaved)	Specific Use Areas	300	0	0	12	0	12
CDM						30	0	0	0	30
TTEMI	AD-200689	UA-202697	Flowerbed	Specific Use Areas	620	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200689	UA-202698	Flowerbed	Specific Use Areas	460	30	0	0	0	30
CDM						30	0	0	0	30

PI- Point Inspection

Property ID, Location ID, and square footages per area provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101031</u>	Page No.: <u>7</u>	Site Visit Date: <u>7/16/2008</u>	BD Number: _____
Address: <u>AD-200689</u>	Structure Description: <u>Property</u>		
Occupant: <u>Vogel</u>	Phone No.: <u>NA</u>		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>NA</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-202698	Zone 2 UA-202697	Zone 3 UA-202696	Zone 4 UA-202695	Zone 5 UA-202693	Zone 6 UA-202694	Zone 7	Zone 8
Type (SUA/CUA/LUA/ISA)		SUA	SUA	SUA	SUA	CUA	SUA		
Description		FLOWERBED	FLOWERBED	DRIVEWAY	FLOWERPOTS	YARD	GARDEN		
Area Size (square feet)		460	620	300	18	8000	1000		
General Comment (Cover, etc.)		TOPSOIL	TOPSOIL	CHIPPED ROCK	POTTING SOIL	GRASS	TOPSOIL		
Pls (X=None, L=Low, M=Intermediate, H=High)	X	30	30	30	2	30	29		
	L	0	0	0	13	0	1		
	M	0	0	0	0	0	0		
	H	0	0	0	0	0	0		
Total		30	30	30	15	30	30	0	0

Areas previously identified for removal not inspected for visible vermiculite?

N/A

Location(s):

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7-16-08

CDM team: D. Shorthair, S. Wilson

Logbook 101031 pg. 7 TROY ASBESTOS PROPERTY EVALUATION

# FIELD DIAGRAM OF PROPERTY YARD

AD-200689	Field Personnel CEM, MS, JC, LS	Date June 25, 2008
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South Flowerbeds Zone ② North Flowerbeds  
 UA-202698 UA-202697

Zone ①  
30-X

TT-04785

460 ft<sup>2</sup>

TT-08744

620 ft<sup>2</sup>

30-X

Zone ③ Driveway 300 ft<sup>2</sup>  
 UA-202696

TT-08743

30-X

0-3 inches

Zone ⑥ Garden 1000 ft<sup>2</sup>  
 UA-202694

TT-08741

29-X

1-L

ALLEY

Garage 400 ft<sup>2</sup>

BD-202292

TT-08739  
 concrete floor -  
 did not sample

House 2000 ft<sup>2</sup>

BD-202291

TT-08737

TT-08738

Zone ⑤ Yard 8000 ft<sup>2</sup>  
 UA-202693

TT-08740 30-X

SPOKANE

Zone ④ Flowerpots 18 ft<sup>2</sup>  
 UA-202695

TT 08742

2-X,

13-15-L

SV 7-16-08

8 FLOWERPOTS

SCATTERED THROUGHOUT GARDEN.



Tetra Tech Em Inc.

Visual Vermiculite Summary By Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	AD-201095	UA-202543	Driveway (unpaved)	Specific Use Areas	7950	28	2	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-201095	UA-202544	Flower pot	Specific Use Areas	25	7	3	0	0	10
CDM						3	11	0	0	14
TTEMI	AD-201095	UA-202545	Yard (front, back, side)	Common Use Areas	21325	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-201095	UA-202546	Yard (front, back, side)	Common Use Areas	5425	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-201095	UA-202547	Garden	Specific Use Areas	300	18	9	3	0	30
CDM						16	14	0	0	30
TTEMI	AD-201095	UA-202548	Dog pen	Specific Use Areas	2800	28	2	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-201095	UA-202549	Dog pen	Specific Use Areas	150	26	4	0	0	30
CDM						10	0	0	0	10
TTEMI	AD-201095	UA-202550	Flowerbed	Specific Use Areas	180	12	3	0	0	15
CDM						3	7	0	0	10
TTEMI	AD-201095	UA-202551	Dog pen	Specific Use Areas	100	10	0	0	0	10
CDM						5	0	0	0	5
TTEMI	AD-201095	UA-202552	Flower pot	Specific Use Areas	15	3	0	1	1	5
CDM						2	4	0	0	6
TTEMI	AD-201095	UA-202553	Flower pot	Specific Use Areas	6	3	1	0	2	6
CDM						Not identified on sketch				0
TTEMI	AD-201095	UA-202554	Flowerbed	Specific Use Areas	280	25	5	0	0	30
CDM						24	6	0	0	30
TTEMI	AD-201095	BD-202211	Shed	Interior Surface	300	Not inspected				0
CDM						10	0	0	0	10

PI- Point Inspection

Property ID, Location ID, and square footages per area provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101031</u>	Page No.: <u>8</u>	Site Visit Date: <u>7/16/2008</u>	BD Number: _____
Address: <u>AD-201095</u>	Structure Description: <u>Property</u>		
Occupant: <u>Dupert</u>	Phone No.: <u>NA</u>		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>NA</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-202550	Zone 2 UA-202546	Zone 3 UA-202543	Zone 4 UA-202544	Zone 5 UA-202551	Zone 6 BD-202211	Zone 7 UA-202549	Zone 8 UA-202545
Type (SUA/CUA/LUA/ISA)		SUA	CUA	SUA	SUA	SUA	ISA	SUA	CUA
Description		FLOWERBED	YARD	DRIVEWAY	FLOWERPOTS	DOG PEN	SHED	DOG PEN	YARD
Area Size (square feet)		180	5425	7950	25	100	300	150	21325
General Comment (Cover, etc.)		TOPSOIL	GRASS	CHIPPED ROCK	POTTING SOIL	GRASS	TOPSOIL	GRASS	GRASS
Pls (X=None, L=Low, M=Intermediate, H=High)	X	3	30	30	3	5	10	10	30
	L	7	0	0	11	0	0	0	0
	M	0	0	0	0	0	0	0	0
	H	0	0	0	0	0	0	0	0
Total		10	30	30	14	5	10	10	30

Areas previously identified for removal not inspected for visible vermiculite?

N/A

Location(s):

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**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101031</u>	Page No.: <u>8</u>	Site Visit Date: <u>7/16/2008</u>	BD Number: <u>0</u>
Address: <u>AD-201095</u>	Structure Description: <u>Property</u>		
Occupant: <u>Dupert</u>	Phone No.: <u>NA</u>		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>NA</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): <u>0</u>		

		Zone 9 UA-202554	Zone 10 UA-202552	Zone 11 UA-202548	Zone 12 UA-202547	Zone 13	Zone 14	Zone 15	Zone 16
Type (SUA/CUA/LUA/ISA)		SUA	SUA	SUA	SUA				
Description		FLOWERBED	FLOWERPOTS	DOG PEN	ROCK GARDEN				
Area Size (square feet)		280	15	2800	300				
General Comment (Cover, etc.)		POTTING SOIL	POTTING SOIL	GRASS	ROCK & POTTING SOIL				
Pls (X=None, L=Low, M=Intermediate, H=High)	X	24	2	30	16				
	L	6	4	0	14				
	M	0	0	0	0				
	H	0	0	0	0				
Total		30	6	30	30	0	0	0	0

Areas previously identified for removal not inspected for visible vermiculite?

N/A

Location(s):

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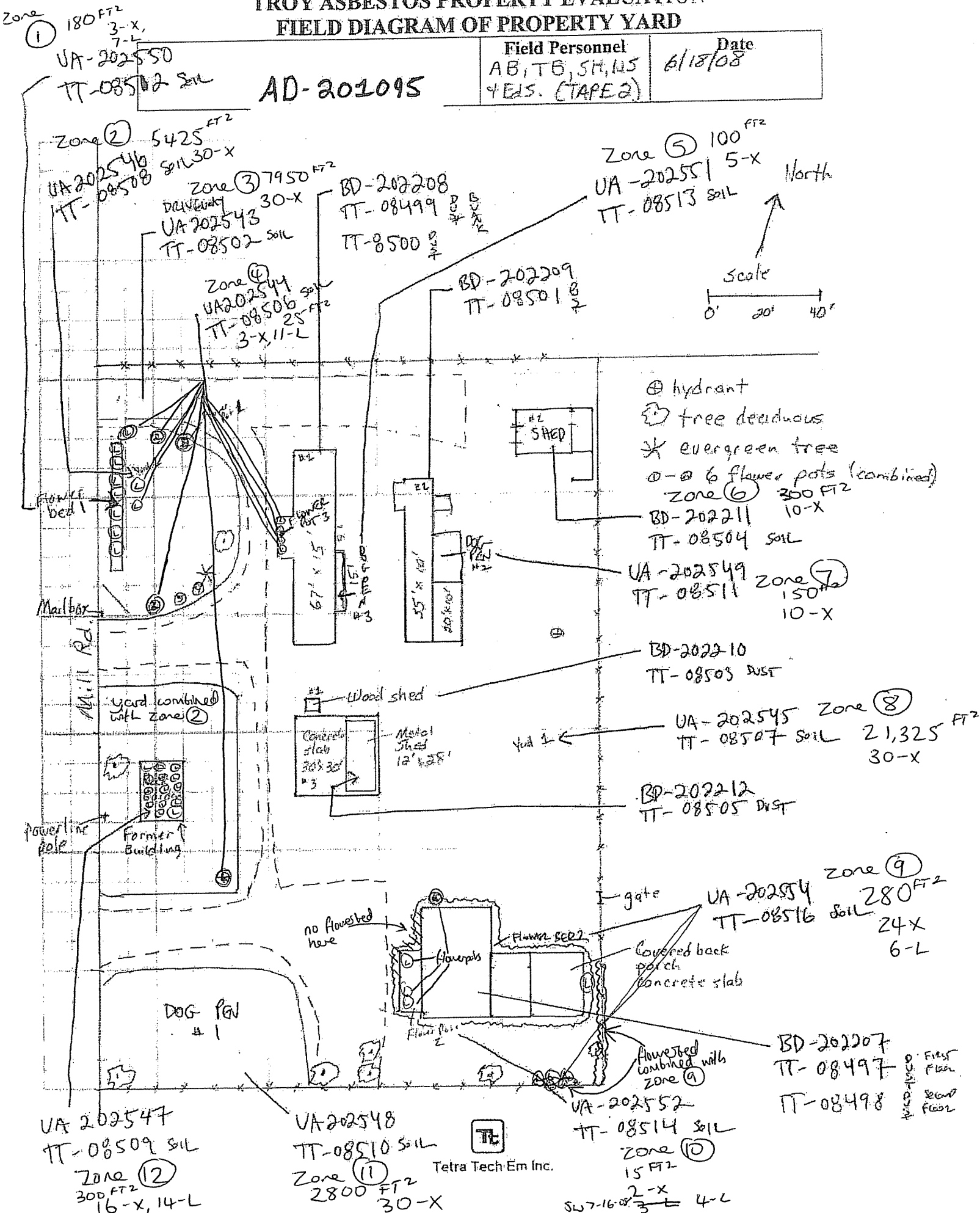
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CDM team: D. Shoftman, S. Wilson

Field Personnel  
AB, TB, SM, NS  
4 ELS. (TAPE 2)

Date  
6/18/08

AD-201095



Visual Vermiculite Summary By Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	AD-200614	UA-202245	Garden	Specific Use Areas	1925*	19	11	0	0	30
CDM						24	0	6	0	30
TTEMI	AD-200614	UA-202246	Yard (front, back, side)	Common Use Areas	20856*	30	0	0	0	30
CDM						25	5	0	0	30
TTEMI	AD-200614	UA-202247	Stockpile	Specific Use Areas	1750	5	6	0	0	11
CDM						15	15	0	0	30
TTEMI	AD-200614	UA-202248	Stockpile	Specific Use Areas	1530	15	0	0	0	15
CDM						30	0	0	0	30
TTEMI	AD-200614	UA-202249	Stockpile	Specific Use Areas	1800	30	0	0	0	30
CDM						24	6	0	0	30
TTEMI	AD-200614	UA-202250	Driveway (unpaved)	Specific Use Areas	9402	20	7	0	0	27
CDM						29	1	0	0	30
TTEMI	AD-200614	UA-202251	Garden	Specific Use Areas	2400	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200614	UA-202252	Flowerbed	Specific Use Areas	14	7	0	0	0	7
CDM						15	0	0	0	15
TTEMI	AD-200614	UA-202253	Garden	Specific Use Areas	5225	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200614	UA-202254	Stockpile	Specific Use Areas	1575	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200614	UA-202255	Yard (front, back, side)	Common Use Areas	4000	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-200614	BD-202149	Greenhouse	Interior Surface	250	Not inspected				0
CDM						5	0	0	0	5

\*A portion of UA-202246 was inspected with UA-202245 during inspection conducted by CDM.

PI- Point Inspection

Property ID, Location ID, and square footages per area provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101031</u>	Page No.: <u>9</u>	Site Visit Date: <u>7/16/2008</u>	BD Number: _____
Address: <u>AD-200614</u>	Structure Description: <u>Property</u>		
Occupant: <u>Welch</u>	Phone No.: <u>NA</u>		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>NA</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-202250	Zone 2 UA-202245	Zone 3 UA-202248	Zone 4 UA-202252	Zone 5 UA-202251	Zone 6 UA-202246	Zone 7 UA-202255	Zone 8 UA-202254
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA	CUA	SUA	SUA	SUA	CUA	CUA	SUA
<b>Description</b>		DRIVEWAY	YARD	STOCKPILE	FLOWERBED	GARDEN	YARD	YARD	STOCKPILE
<b>Area Size</b> (square feet)		9402	11925	1530	14	2400	10856	4000	1575
<b>General Comment</b> (Cover, etc.)		CHIPPED ROCK	GRASS	STRUCTURAL FILL	TOPSOIL	TOPSOIL	GRASS	TALL GRASS	TOPSOIL
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	29	24	30	15	30	25	30	30
	<b>L</b>	1	0	0	0	0	5	0	0
	<b>M</b>	0	6	0	0	0	0	0	0
	<b>H</b>	0	0	0	0	0	0	0	0
<b>Total</b>		30	30	30	15	30	30	30	30

Areas previously identified for removal not inspected for visible vermiculite?

NA

Location(s):

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**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101031 Page No.: 9 Site Visit Date: 7/16/2008 BD Number: 0  
 Address: AD-200614 Structure Description: Property  
 Occupant: Welch Phone No.: NA  
 Owner (If different than occupant): Same Phone No.: NA  
 Investigation Team: D. Shortman, S. Wilson Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein Visual Verification by Field Team Leader (10% of forms): 0

		Zone 9 UA-202253	Zone 10 BD-202149	Zone 11 UA-202249	Zone 12 UA-202247	Zone 13	Zone 14	Zone 15	Zone 16
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA	SUA	SUA	SUA				
<b>Description</b>		TREE NURSERY	GREENHOUSE	STOCKPILE	BURN PILE				
<b>Area Size</b> (square feet)		5225	250	1800	1750				
<b>General Comment</b> (Cover, etc.)		TOPSOIL	STRUCTURAL FILL	TOPSOIL	TOPSOIL				
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	5	24	15				
	<b>L</b>	0	0	6	15				
	<b>M</b>	0	0	0	0				
	<b>H</b>	0	0	0	0				
<b>Total</b>		30	5	30	30	0	0	0	0

Areas previously identified for removal not inspected for visible vermiculite?

NA

Location(s):

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7-16-08  
Logbook 10/03/08 pg. 9

CDM team: D. Sholtman, S. Wilson

# TROY ASBESTOS PROPERTY EVALUATION FIELD DIAGRAM OF PROPERTY YARD

AD-200614	Field Personnel CBM, ALB, SAH, JR, MS, JC, AEB, JJA, JTA	Date 06/03/08
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BD-202048

TT-04628  
crawl space

BD-202150

TT-04644  
shop loft

Zone 17 15-X  
15-1

UA-202247  
(1750ft<sup>2</sup>) Burn Pile

TT-04643

Zone 1  
29-X  
1-L  
UA-202250  
(9402) Driveway  
TT-04633

BD-202152  
(30ft<sup>2</sup>)

TT-04632  
pumphouse

TT-04645  
pumphouse

Zone 2 24-X, 6-M  
UA-202245  
(1925ft<sup>2</sup>) Orchard

TT-04634

Zone 3 30-X  
UA-202248  
(1530ft<sup>2</sup>) Foundation Stockpile  
TT-04635

Zone 4 15-X  
UA-202252  
(114ft<sup>2</sup>) Flowerbed  
TT-04636

Zone 5 30-X  
UA-202251  
(2400ft<sup>2</sup>) Garden  
TT-04637

UA-202246  
(20,856ft<sup>2</sup>) Lawn

TT-04638

Zone 6  
25-X  
5-L

UA-202255  
(400ft<sup>2</sup>) North Yard

TT-04639

Zone 7  
30-X

UA-202254  
(1575ft<sup>2</sup>) North Stockpile

TT-04640  
Zone 8  
30-X

(1800ft<sup>2</sup>) Zone 11  
Creek Stockpile 24-X  
6-L

UA-202249

TT-04642

BD-202151 (30ft<sup>2</sup>)

TT-04631

BD-202150 (200ft<sup>2</sup>)

TT-04630

BD-202149  
(250ft<sup>2</sup>)

TT-04629  
greenhouse

(1284ft<sup>2</sup>)  
BD-202048

TT-04627  
primary house

UA-202253  
(5225ft<sup>2</sup>) Tree Nursery

TT-04641

This is the yard west of the  
garden and tree nursery, and north  
the main driveway.

Tetra Tech Em Inc.

Visual Vermiculite Summary By Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-201066	UA-202173	Driveway (unpaved)	Specific Use Areas	7500	29	1	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-201066	UA-202174	Yard (front, back, side)	Common Use Areas	98674	25	5	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-201066	UA-202175	Flowerbed	Specific Use Areas	10	12	3	0	0	15
CDM						5	0	0	0	5
TTEMI	AD-201066	UA-202176	Garden	Specific Use Areas	1200	30	0	0	0	30
CDM						30	0	0	0	30
TTEMI	AD-201066	UA-202177	Flower pot	Specific Use Areas	10	3	7	0	0	10
CDM						4	1	0	0	5
TTEMI	AD-201066	UA-202178	Wooded lot or managed forest lan	Non-use Areas	N/A	0	0	0	0	0
CDM						0	0	0	0	0
TTEMI	AD-201066	UA-202179	Stockpile	Specific Use Areas	300	30	0	0	0	30
CDM						20	0	0	0	20
TTEMI	AD-201066	UA-202180	Stockpile	Specific Use Areas	100	10	0	0	0	10
CDM						20	0	0	0	20
TTEMI	AD-201066	UA-202181	Wood Splitting Area	Specific Use Areas	224	20	0	0	0	20
CDM						5	0	0	0	5
TTEMI	AD-201066	UA-202182	Lean to	Specific Use Areas	800	30	0	0	0	30
CDM						20	0	0	0	20
TTEMI	AD-201066	UA-202183	Underneath porches or decks	Limited Use Areas	144	14	1	0	0	15
CDM						20	0	0	0	20

PI- Point Inspection

Property ID, Location ID, and square footages per area provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101031</u>	Page No.: <u>10</u>	Site Visit Date: <u>7/16/2008</u>	BD Number: _____
Address: <u>AD-201066</u>	Structure Description: <u>Property</u>		
Occupant: <u>Welch</u>	Phone No.: <u>NA</u>		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>NA</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-202177	Zone 2 UA-202179	Zone 3 UA-202181	Zone 4 UA-202180	Zone 5 UA-202182	Zone 6 UA-202176	Zone 7 UA-202175	Zone 8 UA-202174
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA	SUA	ISA	SUA	SUA	SUA	SUA	CUA
<b>Description</b>		FLOWER POTS	STOCKPILE	SHED	MANURE PILE	LEAN-TO	GARDEN	FLOWERBED	YARD
<b>Area Size</b> (square feet)		6	300	224	100	800	1200	30	98674
<b>General Comment</b> (Cover, etc.)		POTTING SOIL	SAND	TOPSOIL	MANURE	WASHED ROCK	TOPSOIL	TOPSOIL	GRASS
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	4	20	5	20	20	30	5	30
	<b>L</b>	1	0	0	0	0	0	0	0
	<b>M</b>	0	0	0	0	0	0	0	0
	<b>H</b>	0	0	0	0	0	0	0	0
<b>Total</b>		5	20	5	20	20	30	5	30

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101031 Page No.: 10 Site Visit Date: 7/16/2008 BD Number: 0  
 Address: AD-201066 Structure Description: Property  
 Occupant: Welch Phone No.: NA  
 Owner (If different than occupant): Same Phone No.: NA  
 Investigation Team: D. Shortman, S. Wilson Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein Visual Verification by Field Team Leader (10% of forms): 0

		Zone 9 UA-202173	Zone 10 UA-202183	Zone 11	Zone 12	Zone 13	Zone 14	Zone 15	Zone 16
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA	LUA						
<b>Description</b>		DRIVEWAY	UNDER DECK						
<b>Area Size</b> (square feet)		7500	144						
<b>General Comment</b> (Cover, etc.)		CHIPPED ROCK	TOPSOIL						
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	20						
	<b>L</b>	0	0						
	<b>M</b>	0	0						
	<b>H</b>	0	0						
<b>Total</b>		30	20	0	0	0	0	0	0

Areas previously identified for removal not inspected for visible vermiculite?

NA

Location(s):

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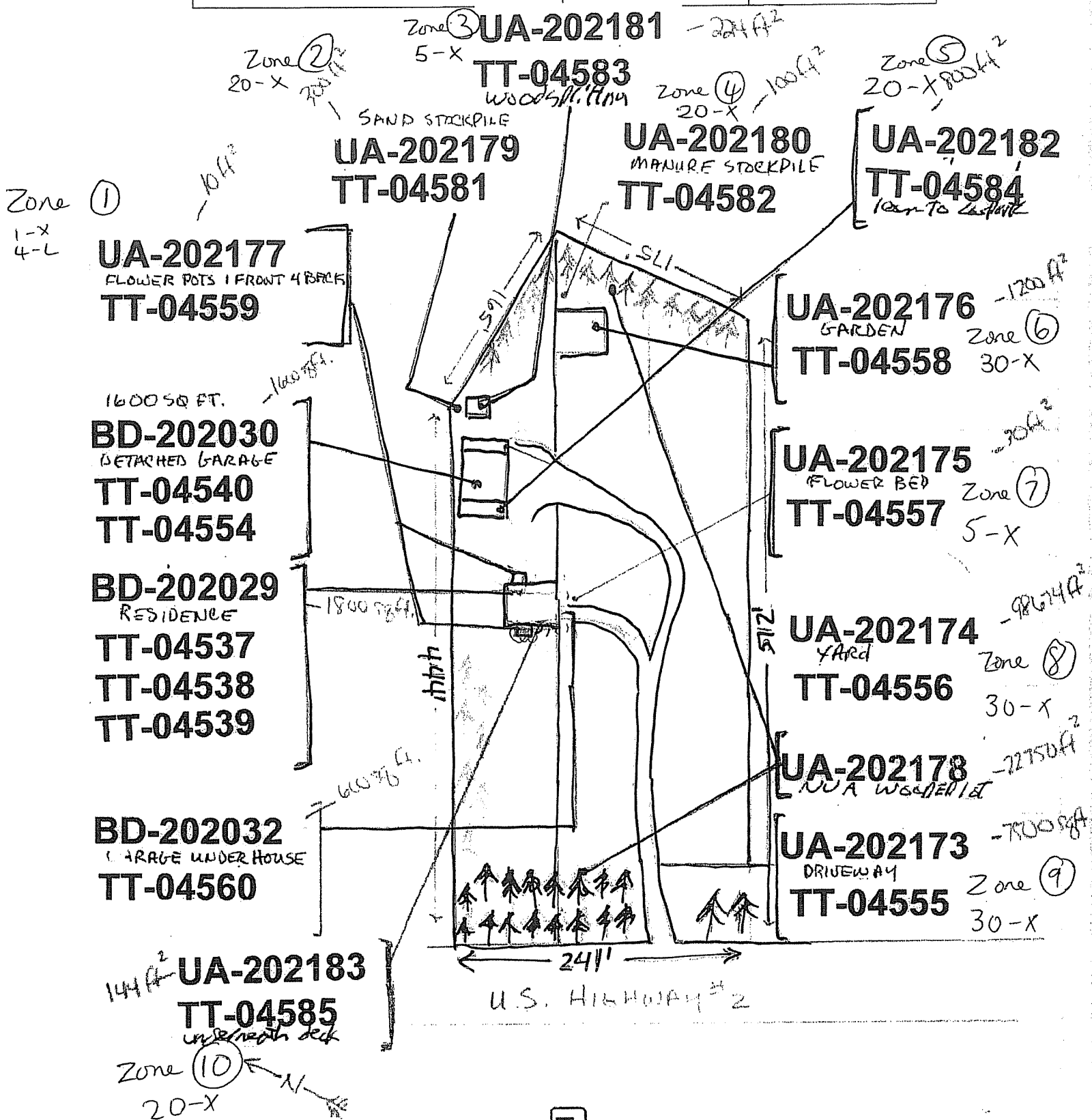
7-16-08

CDM team: D. Shortman, S. Wilson

Logbook 10/03/08

# TROY ASBESTOS PROPERTY EVALUATION FIELD DIAGRAM OF PROPERTY YARD

AD-201066

Field Personnel  
JEB, JC, MS, JHR,  
JJADate  
6/3/08

Tetra Tech Em Inc.

## Attachment B - Field Logbooks

AD-200065

owner: Rice

7-15-08

3

Volpe/Libby Asbestos Project

Logbook 101031

Governing document - TAPE, Feb 2008, PD/WP, Nov 2003

Weather: 70°F, clear. Sampling team: D. Shorman,  
S. Wilson (COM). Author: S. Wilson. PPE level D.

Activities: Visual inspections for visible vermiculite (in soil)

Equipment used: Shovels, water pumps, disposable gloves,  
0805 Visual inspection team and N. Bein (COM)

onsite. Brief interaction with H/O. Conduct walk-  
through of property.

0815 N. Bein offsite. Begin visual inspections for  
Complete list see VVER.

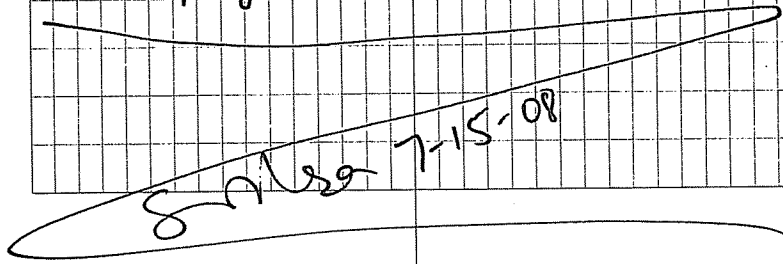
Notes: Did not sample pump house (BD-202199), as  
H/O said it was on a concrete base.

Sampled lean to on the back of garage (BD-202199)  
which did not appear on map.

Took photographs of all areas that had visual  
inspections.

1030 Visual inspection team offsite.

LATE ENTRY: Because of difficulty in getting down 6",  
the driveway (UA-202515) was inspected from  
a depth of 0-3"

 7-15-08

4 Volpe / Libby Asbestos Project Logbook 101031  
AD # 200184 owner: Belmont 7-15-08

Governing document: TAPE, Feb. 2008, PDWIP, Nov 2003

weather 75°F and clear. Sampling team: D. Shortman,

S. Wilson (COM) Author: S. Wilson PPE level D.

Activities: Visual inspections for VCS.

1040 onsite. Spoke with H/O's daughter briefly. Conducted  
site walk through prior to <sup>SV 7-15-08</sup> ~~sampling~~ conducting visual  
inspections

1050 Begin conducting visual inspections. For complete  
list see VVEF.

Notes: The driveway (UA-202185) was inspected from  
0-5", because of the difficulty reaching 0-6".

Only limited access was available for under the  
porch (UA-202191). What was accessible was inspected.

Could not gain access under the deck (unable to  
determine UA-number from drawing provided), as access  
door was padlocked.

Photos were taken of different use areas and  
where visible vermiculite was observed.

1245 Offsite.

Visible Vermiculite observed in zones 3, 4 & 8

7-15-08

SV 7-15-08

Volpe / Libby Asbestos Project Logbook 101031  
AD # 200249  
~~AD # 200184~~ owner: Higgins 7-15-08  
<sup>SV 7-15-08</sup>

Governing document: TAPE, Feb 2008, PDWIP, Nov 2003

weather 75°F and clear Visual Inspection Team: D.

Shortman, S. Wilson (COM) Author: S. Wilson. PPE

Level D. Activities: Visual inspections for VCS

1340 Onsite. Spoke with H/O son briefly. Conducted  
site walk through.

1355 Began visual inspections. For complete list, see  
VVEF.

Notes: The driveway (UA-202503) was inspected  
from 0-3", instead of 0-6" because of the difficulty  
reaching a depth of 6".

Did not sample the pump house (BD-202195)  
because of concrete floor.

Garden area containing rhubarb to the <sup>northeast</sup> ~~northwest~~  
of the house was combined with garden UA-  
202507, as it was not on the map <sup>provided</sup> ~~provided~~.  
<sup>SV 7-15-08</sup>

Flowerbed to northeast of the house not shown on  
drawing provided and flowerbeds to the north  
(not shown on drawing provided)  
and south of the pump house were combined with  
flowerbed 2 (UA-202514)

Photos were taken of the different use areas and  
where visible vermiculite was observed.

1640 Offsite.

Visible Vermiculite observed in zones 10 & 11

SV 7-15-08



6 Volpe/Libby Asbestos Project

Logbook 101031

AD# 200133 owner: Hashing

7-15-08

Governing document: TAPE, Feb. 2008, PDWP Nov, 2003

weather: 85°F, and clear. Visual Inspection Team: D. Shortman,

S. Wilson (COM). Author: S. Wilson. PPE level D. Activities:

Visual inspection for VCS.

1650 Onsite. Spoke with H/O son. Got information on where the south property boundary was. Conducted site walkthrough.

1700 Began visual inspections. For complete list, see VUEF.

Notes: flowerbed <sup>on</sup> ~~to~~ north side of house (BD-202165) was not on drawing provided. Combined it with flowerbed UA-202284.

Stockpile UA-202286 was not apparent where it appeared to be on drawing provided, and so could not be sampled.

The driveway (UA-202282) was inspected from ~~0-6~~ <sup>SW 7-15-08</sup> 0-3", because of difficulty reaching 0-6".

A second dog pen was observed in overgrown area UA-202288, to the north of garage/workshop BD-202166. It was not on drawing provided, combined it with dog pen UA-202285.

Took photographs of different use areas and where visible vermiculite was observed.

1815 Offsite.

Visible vermiculite observed in zones 1, 2 & 5

*S. Wilson* 7-15-08

Volpe/Libby Asbestos Project

Logbook 101031 7

AD-200669

owner: Vogel

7-16-08

Governing document: TAPE, Feb. 2008, PDWP Nov, 2003

weather: 61°F, and clear. Visual inspection team: D.

Shortman, S. Wilson (COM). Author: S. Wilson. PPE level

D. Activities: Visual inspection for VCS.

0805 onsite. H/O not present. Did site walkthrough.

0815 Begin visual inspections. For complete list, see VUEF.

Notes: Driveway was inspected from 0-3 inches, as compaction made it difficult to reach 6" depth.

Took photographs of different use areas and where visible vermiculite was observed.

0950 Offsite.

LATE ENTRY FOR NOTES: Driveway is UA-202696  
Vermiculite observed in zones 4 and 6

*S. Wilson* 7-16-08

8 Volpe/Libby Asbestos Project  
AD-201095 owner: Dupest

Logbook 101031  
7-16-08

Governing document: TAPE, Feb 2008, PD/NP Nov. 2003

Weather: 68°F, clear. Visual Inspection Team: D. Shorman,

S. Wilson (COM). Author: S. Wilson. PPE level D.

Activities: Visual Inspection for VCS.

1000 Onsite. Spoke with property owner, and a resident  
in both of the two trailers on the property.

1018. Begin visual inspections. For complete list, see VUEF.

Notes: Only 5 visual inspection points were done at dog pen 3,  
(UA-202551) because of distress to dog in pen.

Driveway (UA-202543) was inspected from 8-3"  
due to difficulty in reaching 6" depth.

Visually inspected flowerbeds to east and south of  
BD-202207 that were not shown on drawing  
provided. Flowerbeds were combined with flowerbed  
UA-202554.

1145 S. Wilson offsite to get to another property at  
scheduled time of 1200.

1250 D. Shorman offsite, having taken photographs of the  
different use areas and where visible vermiculite was  
observed.

Visible vermiculite observed in zones 4, 9, 10 & 12

SM 7-16-08

Volpe/Libby Asbestos Project  
AD-200614 owner: Welch

Logbook 101031 9  
7-16-08

Governing document: TAPE, Feb 2008, PD/NP Nov. 2003

Weather: 79°F, clear. Visual Inspection Team: D. Shorman,

S. Wilson (COM). Author: S. Wilson. PPE level D. Activities:

Visual Inspections for VCS.

1155 S. Wilson onsite. Spoke with H/O. Do site walk through

1210 Start visual inspection. For complete list, see VUEF.

1300 D. Shorman onsite.

Notes: Driveway was sampled from 0-3" depth, due to  
difficulty reaching 6". Driveway is UA-202250

Inside the greenhouse (BD-202149) gravel  
was from a depth of below 6", no soil.

Foundation stockpile (UA-202248) was  
gravel to a depth of more than 6", no soil.

There was a strip of garden, containing rhubarb to  
the east side of greenhouse (BD-202149) that  
was not on drawing provided. Combined it with  
garden UA-202251.

Flowerbed to right of gateway at main entrance was  
not on map provided. Combined it with flowerbed  
UA-202252.

Took photographs of the different use areas and  
where visible vermiculite was observed.

1510 Offsite.

Visible vermiculite observed in zones 1, 2, 6, 11 & 12

SM 7-16-08

10 Volpe/Libby Asbestos Project Logbook 101031

AD# 201066 owner: Welch 7-16-08

Governing document: TAPE, Feb 2008, PDIWP, Nov. 2003

Weather: 85°F, and clear. Visual Inspection Team: D.

Shortman, S. Wilson (COM). Author: S. Wilson, PPE Level D.

Activities: Visual Inspection for VCS.

1540 Onsite. Spoke with H/O. Conduct site walkthrough.

1550 Begin visual inspections. For complete list, see VVEF.

Notes: Driveway (UA-202173) was inspected from 0-3" depth, because of difficulty reaching 6" depth.

Limited inspections took place at woodshed (UA-202181), due to firewood covering most of the floor.

Took photographs of the different use areas and locations of visible vermiculite.

1720 Offsite.

Visible vermiculite observed in zone 1

8/16/08 7-16-08



## Memorandum

*To: Mark Raney, Volpe*

*From: Nicole Bein, CDM*

*Date: April 16, 2009*

*Subject: Troy Visual Vermiculite Investigation, Second Event- Revision 1*

In 2008, CDM Federal Programs Corporation (CDM) inspected a total of 36 properties in Troy, Montana for visual vermiculite in soils. The objective of the inspections was for CDM to independently assess the location and quantities of visual vermiculite at properties in Troy, Montana as a quality control measure for the TAPE inspections performed by Tetra Tech EMI (TTEMI).

The investigation summarized in this letter report was the second of two scheduled inspections by CDM. The first inspection took place in July 2008 at eight properties and was summarized in a letter report from Nicole Bein to Mark Raney dated July 31, 2008 (Subject: Troy Visual Vermiculite Inspection, First Event.) This second event of visual inspections was conducted on August 26<sup>th</sup> and 27<sup>th</sup> as well as from October 30<sup>th</sup> through November 5, 2008. The inspections were conducted in accordance with the *Final Troy Asbestos Property Evaluation (TAPE) Work Plan*, dated July 9, 2007 and strongly focused on *Standard Operating Procedure CDM-Libby-06, Revision 1 Semi-Quantitative Estimation of Vermiculite in Soils at Residential and Commercial Properties* dated May 10, 2007.

### Bounds of Investigations

Between the 2007 and 2008 TTEMI field seasons, additional training was provided to TTEMI field members in identifying and quantifying visual vermiculite. Afterwards, properties that were inspected by TTEMI in 2007 were revisited in 2008 by TTEMI to confirm their previous vermiculite observations.

The CDM inspections conducted in August 2008 were limited to eight properties that were screened in the 2008 TAPE field season. The CDM inspections conducted in October and November 2008 focused on 20 properties that were screened in the 2007 TAPE field season, but where a confirmatory revisit had not yet taken place by TTEMI.

Property selection was based on the quantity of vermiculite (i.e., none, low, intermediate, high) identified during the TAPE inspection. TTEMI provided information regarding visual

vermiculite on field sketches which was then redacted and distributed to the CDM field team members. CDM field teams were also provided with the Use Areas as classified by TTEMI and subsequently inspected those Use Areas as access permitted. All observations of vermiculite were recorded on the field sketches provided by TTEMI and dimensions of the Use Areas were not verified by CDM.

Interior surfaces such as garages, sheds, and pumphouses were also inspected as access permitted, but crawlspaces were not. In each Use Area, 30 locations were randomly inspected that were evenly representative of that land Use Area. Corresponding soil samples were not collected as part of this investigation. When conditions did not allow for 30 point inspections (PIs) (e.g., access, small surficial area) field judgment was used to attain the maximum number of PIs possible. Out of the 137 Use Areas inspected by CDM, 28 were not able to be fully characterized with 30 PIs and the circumstances of each are outlined below.

Documentation at each property consisted of logbook entries, photographs, field sketches, and corresponding Visual Vermiculite Estimations Forms (VVEFs). All visual vermiculite information including the field sketch, VVEF, and comparison of inspection findings per property is presented in appendices attached to this letter report.

## **Summary of Findings**

*AD-200035*

Inspection of the Mason property was conducted on August 26, 2008. The six Use Areas identified by the TAPE were all inspected. Due to the limited square footage of the flowerpots, a total of 30 PIs could not be inspected in one of the five Use Areas. Visual vermiculite was identified at low levels in two Use Areas by CDM. Visual vermiculite was not identified in any of the Use Areas by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202789	Driveway	Specific Use Areas	7,920	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202790	Yard (front, back, side)	Common Use Areas	34,754	30	0	0	0	30
CDM					29	1	0	0	30
TTEMI	UA-202792	Flower pot	Specific Use Areas	14	8	0	0	0	8
CDM					11	4	0	0	15
TTEMI	UA-202793	Wood Splitting Area	Specific Use Areas	200	10	0	0	0	10
CDM					30	0	0	0	30
TTEMI	BD-202350	Lean-to	Interior Surface Area	104	5	0	0	0	5
CDM					30	0	0	0	30
TTEMI	BD-202349	Pumphouse	Interior Surface Area	64	5	0	0	0	5
CDM					30	0	0	0	30

AD-200268

Inspection of the Mason property was conducted on August 26, 2008. The three Use Areas identified by the TAPE were all inspected. Visual vermiculite was not identified in any of the Use Areas by CDM. Visual vermiculite was identified at intermediate levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202759	Yard (front, back, side)	Common Use Areas	6,390	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202760	Driveway (unpaved)	Specific Use Areas	3,000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202761	Flowerbed	Specific Use Areas	600	29	0	1	0	30
CDM					30	0	0	0	30

AD-200120

Inspection of the Boren property was conducted on August 26, 2008. The six Use Areas identified by the TAPE were all inspected. Due to the limited square footage of the garden, a total of 30 PIs could not be inspected in one of the five Use Areas. Visual vermiculite was identified at low levels in three Use Areas by CDM. Visual vermiculite was not identified in any of the Use Areas by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202816	Yard (front, back, side)	Common Use Areas	27,540	30	0	0	0	30
CDM					29	1	0	0	30
TTEMI	UA-202817	Driveway (unpaved)	Specific Use Areas	2,880	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202818	Garden	Specific Use Areas	288	12	0	0	0	12
CDM					25	0	0	0	25
TTEMI	UA-202819	Flowerbed	Specific Use Areas	48	6	0	0	0	6
CDM					26	4	0	0	30
TTEMI	UA-202820	Underneath porches or decks	Limited Use Areas	288	5	0	0	0	5
CDM					30	0	0	0	30
TTEMI	BD-202367	Carport	Interior Surface Area	432	5	0	0	0	5
CDM					26	4	0	0	30

AD-200415

Inspection of the Keenan property was conducted on August 26, 2008. The three Use Areas identified by the TAPE were all inspected. In addition, one specific use area (SUA) that was not on the sketch provided was inspected. Visual vermiculite was identified at low levels in four Use Areas by CDM. Visual vermiculite was identified at low to intermediate levels in two Use Areas by TTEMI. A summary of the PIs listed by Use Area is provided the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-203217	Yard (front, back, side)	Common Use Areas	11,704	30	0	0	0	30
CDM					29	1	0	0	30
TTEMI	UA-203218	Former flowerbed	Common Use Areas	120	27	3	0	0	30
CDM		Flowerbed	Specific Use Areas		23	7	0	0	30
TTEMI	UA-203219	Driveway (unpaved)	Specific Use Areas	300	18	1	1	0	20
CDM					28	2	0	0	30
TTEMI	N/A	Flower pot	Specific Use Areas	8	Not identified on sketch				0
CDM					21	9	0	0	30

AD-200572

Inspection of the Walch property was conducted on August 27, 2008. The nine Use Areas identified by the TAPE were all inspected. Due to the limited square footage of the tomato garden, driveway, and flowerpots, a total of 30 PIs could not be inspected in three of the nine Use Areas. CDM identified visual vermiculite at low levels in four Use Areas and at low to intermediate levels in two Use Areas. Visual vermiculite was identified at low levels in three Use Areas and at high levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.



Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202522	Yard (front, back, side)	Common Use Areas	6,534	30	0	0	0	30
CDM					28	2	0	0	30
TTEMI	UA-202523	Driveway (unpaved)	Specific Use Areas	150	15	0	0	0	15
CDM					15	0	0	0	15
TTEMI	UA-202524	Garden	Specific Use Areas	500	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202525	Flowerbed	Specific Use Areas	70	17	3	0	0	20
CDM					13	17	0	0	30
TTEMI	UA-202526	Former garden	Common Use Areas	600	0	0	0	30	30
CDM					18	6	6	0	30
TTEMI	UA-202527	Garden	Specific Use Areas	10	0	10	0	0	10
CDM					2	13	0	0	15
TTEMI	UA-202528	Flower pot	Specific Use Areas	2	Not inspected				0
CDM					5	0	0	0	5
TTEMI	UA-202529	Overgrown areas	Limited Use Areas	2,520	30	0	0	0	30
CDM					27	0	3	0	30
TTEMI	UA-202530	Former flowerbed	Common Use Areas	10	0	10	0	0	10
CDM					25	5	0	0	30

#### AD-202006

Inspection of the Judkins property was conducted on August 27, 2008. The seven Use Areas identified by the TAPE were all inspected. The CDM field team visually inspected the interior surface of the lean-to for vermiculite, whereas TTEMI collected a dust sample. Due to the limited square footage of the flowerpots and lean-to, a total of 30 PIs could not be inspected in two of the seven Use Areas. CDM identified visual vermiculite at low levels in three Use Areas and at low to high levels in two Use Areas. Visual vermiculite was identified at low to intermediate levels in four Use Areas and at high levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202942	Flower pot	Specific Use Areas	10	6	3	0	0	9
CDM					0	15	0	0	15
TTEMI	UA-202943	Flowerbed	Specific Use Areas	550	11	9	0	0	20
CDM					19	10	0	1	30
TTEMI	UA-202944	Yard (front, back, side)	Common Use Areas	7,200	25	5	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202945	Driveway (unpaved)	Specific Use Areas	1,800	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202946	Yard (front, back, side)	Common Use Areas	36	4	0	0	2	6
CDM					18	7	0	5	30
TTEMI	UA-202947	Former garden	Common Use Areas	240	19	9	2	0	30
CDM					27	3	0	0	30
TTEMI	BD-202345	Lean-to	Interior Surface Area	300	Dust sampled				0
CDM					8	2	0	0	10

AD-200578

Inspection of the Taylor property was conducted on August 27, 2008. The four Use Areas identified by the TAPE were all inspected. CDM identified visual vermiculite at low levels in two Use Areas and at low to intermediate levels in one Use Area. Visual vermiculite was identified at low levels in all four Use Areas by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-203321	Yard (front, back, side)	Common Use Areas	7,188	28	2	0	0	30
CDM					29	1	0	0	30
TTEMI	UA-203322	Driveway (unpaved)	Specific Use Areas	1,584	18	2	0	0	20
CDM					30	0	0	0	30
TTEMI	UA-203323	Flowerbed	Specific Use Areas	475	10	20	0	0	30
CDM					10	20	0	0	30
TTEMI	UA-203324	Flower pot	Specific Use Areas	25	0	10	0	0	10
CDM					14	14	2	0	30

AD-200118

Inspection of the Brown property was conducted on August 27, 2008. The five Use Areas identified by the TAPE were all inspected; however, the SUA in the northwest yard (36 ft<sup>2</sup>) was inspected as part of the yard. Visual vermiculite was identified at low levels in two Use Areas by CDM. Visual vermiculite was identified at low levels in three Use Areas by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202472	Yard (front, back, side)	Common Use Areas	26,700	24	6	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202473	Driveway (unpaved)	Specific Use Areas	8,200	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202474	Flowerbed	Specific Use Areas	140	15	3	0	0	18
CDM					24	6	0	0	30
TTEMI	UA-202475	Garden	Specific Use Areas	1,800	30	0	0	0	30
CDM					26	4	0	0	30
TTEMI	UA-202476	Garden	Specific Use Areas	36	7	4	0	0	11
CDM					Inspected as part of yard				0

AD-200004

Inspection of the Lundin property was conducted on October 30, 2008. Six out of the eight Use Areas identified by the TAPE were inspected. The defined play area and flowerpots were no longer present during the inspection by CDM. Three non-use areas were identified but did not require inspection. Visual vermiculite was identified at low levels in one Use Area by CDM. Visual vermiculite was not identified in any of the Use Areas by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-200193	Yard (front, back, side)	Common Use Areas	7,150	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200194	Flowerbed	Specific Use Areas	30	30	0	0	0	30
CDM					28	2	0	0	30
TTEMI	UA-200195	Driveway (unpaved)	Specific Use Areas	300	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200196	Yard (front, back, side)	Common Use Areas	7,300	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200197	Yard (front, back, side)	Common Use Areas	4,784	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200198	Driveway (unpaved)	Specific Use Areas	960	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200199	Flower pot	Specific Use Areas	30	25	0	0	0	25
CDM					No longer present				0
TTEMI	UA-200267	Wooded lot or managed forest land	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0
TTEMI	UA-200268	Wooded lot or managed forest land	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0
TTEMI	UA-200269	Wooded lot or managed forest land	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0
TTEMI	UA-200270	Defined play area	Specific Use Areas	50	10	0	0	0	10
CDM					No longer present				0

AD-200075

Inspection of the Hibb property was conducted on October 30, 2008. The two Use Areas identified by the TAPE were both inspected. Visual vermiculite was identified at low levels in one Use Area by CDM. Visual vermiculite was identified at low levels in the same Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-201260	Pasture or field	Limited Use Areas	18,000	24	6	0	0	30
CDM					27	3	0	0	30
TTEMI	UA-201261	Overgrown areas	Limited Use Areas	10,000	30	0	0	0	30
CDM					30	0	0	0	30

AD-200421

Inspection of the Palmer property was conducted on October 30, 2008. The four Use Areas identified by the TAPE were all inspected. Due to limited square footage of the flowerbeds surrounding the house, and to more closely mirror the number of PIs collected by TTEMI from the garden and terraced flowerbeds, a total of 30 PIs were not inspected in three of the four Use Areas. CDM identified visual vermiculite at low levels in two Use Areas and at low to intermediate levels in the remaining two Use Areas. Visual vermiculite was identified at intermediate levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-200632	Yard (front, back, side)	Common Use Areas	7,000	30	0	0	0	30
CDM					25	5	0	0	30
TTEMI	UA-200633	Flowerbed	Specific Use Areas	120	8	0	0	0	8
CDM					5	2	1	0	8
TTEMI	UA-200634	Flowerbed	Specific Use Areas	1,600	0	0	5	0	5
CDM					0	7	1	0	8
TTEMI	UA-200635	Garden	Specific Use Areas	1,800	15	0	0	0	15
CDM					4	11	0	0	15

AD-200055

Inspection of the McCain property was conducted on October 30, 2008. The six Use Areas identified by the TAPE were all inspected. Due to limited square footage of the garden and flowerbed and the access restrictions of the area underneath the deck, a total of 30 PIs could not be inspected in three of the six Use Areas. Visual vermiculite was identified at low levels in three Use Areas by CDM. Visual vermiculite was identified at high levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	UA-200581	Former garden	Common Use Areas	2,450	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200762	Yard (front, back, side)	Common Use Areas	25,500	30	0	0	0	30
CDM					29	1	0	0	30
TTEMI	UA-200763	Garden	Specific Use Areas	128	10	0	0	0	10
CDM					10	0	0	0	10
TTEMI	UA-200764	Driveway (unpaved)	Specific Use Areas	3,175	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200765	Underneath porches or decks	Limited Use Areas	224	1	0	0	0	1
CDM					4	1	0	0	5
TTEMI	UA-200766	Flowerbed	Specific Use Areas	30	26	0	0	4	30
CDM					0	5	0	0	5

AD-200007

Inspection of the Speck property was conducted on October 31, 2008. The four Use Areas identified by the TAPE were all inspected. Visual vermiculite was identified at low levels in one Use Area by CDM. Visual vermiculite was not identified in any of the Use Areas by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	UA-200779	Yard (front, back, side)	Common Use Areas	9,000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200780	Driveway (unpaved)	Specific Use Areas	700	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200781	Flowerbed	Specific Use Areas	60	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200801	Flower pot/ Garden	Specific Use Areas	30	30	0	0	0	30
CDM					20	10	0	0	30

AD-200265

Inspection of the Scott property was conducted on October 31, 2008. Four out of the five Use Areas identified by the TAPE were inspected. The flowerpot south of the house was no longer present during the inspection by CDM. One non-use area was identified but did not require inspection. Due to limited square footage of the garden and flowerbed, a total of 30 PIs could not be inspected in two of the four Use Areas. Visual vermiculite was identified at low levels in two Use Areas by CDM. Visual vermiculite was identified at low levels in the same two Use Areas by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202902	Yard (front, back, side)	Common Use Areas	66,113	24	6	0	0	30
CDM					29	1	0	0	30
TTEMI	UA-202903	Wooded lot or managed forest land	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0
TTEMI	UA-202904	Flowerbed	Specific Use Areas	48	14	0	0	0	14
CDM					15	0	0	0	15
TTEMI	UA-202905	Flower pot	Specific Use Areas	6	4	0	0	0	4
CDM					No longer present				0
TTEMI	UA-202906	Garden	Specific Use Areas	76	11	4	0	0	15
CDM					10	5	0	0	15
TTEMI	UA-202907	Driveway (unpaved)	Specific Use Areas	583	30	0	0	0	30
CDM					30	0	0	0	30

AD-200150

Inspection of the Rayson property was conducted on October 31, 2008. The three Use Areas identified by the TAPE were all inspected. One non-use area was identified but did not require inspection. Visual vermiculite was identified at low levels in one Use Area by CDM. Visual vermiculite was not identified in any of the Use Areas by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	UA-201267	Yard (front, back, side)	Common Use Areas	24,278	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-201268	Driveway (unpaved)	Specific Use Areas	15,198	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-201269	Flowerbed	Specific Use Areas	300	30	0	0	0	30
CDM					29	1	0	0	30
TTEMI	UA-201270	Wooded lot or managed forest land	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0

AD-200692

Inspection of the Town Pump property was conducted on October 31, 2008. The two Use Areas identified by the TAPE were both inspected. Due to limited square footage of the flowerbed, a total of 30 PIs could not be inspected in one of the two Use Areas. Visual vermiculite was identified at low levels in one Use Area by CDM. Visual vermiculite was identified at high levels in the same Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	UA-201907	Driveway (unpaved)	Specific Use Areas	1,200	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-201908	Flowerbed	Specific Use Areas	170	11	0	0	1	12
CDM					11	1	0	0	12

AD-200014

Inspection of the Jones property was conducted on November 3, 2008. Four out of the five Use Areas identified by the TAPE were inspected. The flowerbed northwest of the house was no longer present during the inspection by CDM. Due to limited square footage of the flowerbeds, a total of 30 PIs could not be inspected in two of the four Use Areas. Visual vermiculite was identified at low levels in one Use Area by CDM. Visual vermiculite was not identified in any of the Use Areas by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.



Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	UA-200156	Yard (front, back, side)	Common Use Areas	1,500	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200157	Yard (front, back, side)	Common Use Areas	2,500	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200158	Flowerbed	Specific Use Areas	30	5	0	0	0	5
CDM					5	0	0	0	5
TTEMI	UA-200159	Flowerbed	Specific Use Areas	9	3	0	0	0	3
CDM					4	1	0	0	5
TTEMI	UA-200225	Flowerbed	Specific Use Areas	6	3	0	0	0	3
CDM					No longer present				0

#### AD-200266

Inspection of the Pluger property was conducted on November 3, 2008. The six Use Areas identified by the TAPE were all inspected. Due to limited square footage of the flowerpots, a total of 30 PIs could not be inspected in one of the six Use Areas. Visual vermiculite was identified at low levels in three Use Areas by CDM. Visual vermiculite was identified at low levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	UA-200810	Former garden	Common Use Areas	6,000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200811	Yard (front, back, side)	Common Use Areas	60,000	30	0	0	0	30
CDM					24	6	0	0	30
TTEMI	UA-200812	Flowerbed	Specific Use Areas	635	28	2	0	0	30
CDM					0	30	0	0	30
TTEMI	UA-200813	Driveway (unpaved)	Specific Use Areas	1,750	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200814	Flower pot	Specific Use Areas	12	11	0	0	0	11
CDM					0	11	0	0	11
TTEMI	UA-200815	Pasture or field	Limited Use Areas	40,000	30	0	0	0	30
CDM					30	0	0	0	30

AD-200720

Inspection of the Downey property was conducted on November 3, 2008. The four Use Areas identified by the TAPE were all inspected. Due to access restrictions underneath the deck, a total of 30 PIs could not be inspected in one of the four Use Areas. Visual vermiculite was identified at low levels in three Use Areas by CDM. Visual vermiculite was identified at low to intermediate levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-200788	Flowerbed	Specific Use Areas	100	18	4	8	0	30
CDM					19	11	0	0	30
TTEMI	UA-200789	Driveway (unpaved)	Specific Use Areas	2,100	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200790	Underneath porches or decks	Limited Use Areas	400	4	0	0	0	4
CDM					1	4	0	0	5
TTEMI	UA-200791	Yard (front, back, side)	Common Use Areas	12,180	30	0	0	0	30
CDM					28	2	0	0	30

AD-200407

Inspection of the Winslow property was conducted on November 3, 2008. The five Use Areas identified by the TAPE were all inspected. One non-use area was identified but did not require inspection. Due to limited square footage of the water utility area, and restricted access of the area underneath the deck, a total of 30 PIs could not be inspected in two of the five Use Areas. Visual vermiculite was identified at low levels in two Use Areas by CDM. Visual vermiculite was identified at intermediate to high levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	UA-200782	Yard (front, back, side)	Common Use Areas	53,800	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200783	Water Utility Aggregate/Soil	Specific Use Areas	500	1	0	0	0	1
CDM					1	0	0	0	1
TTEMI	UA-200784	Driveway (unpaved)	Specific Use Areas	2,500	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200785	Flowerbed	Specific Use Areas	800	27	0	1	2	30
CDM					25	5	0	0	30
TTEMI	UA-200786	Underneath porches or decks	Limited Use Areas	350	10	0	0	0	10
CDM					8	2	0	0	10
TTEMI	UA-200787	Wooded lot or managed forest land	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0

#### AD-200087

Inspection of the West property was conducted on November 4, 2008. The eight Use Areas identified by the TAPE were all inspected. Visual vermiculite was identified at low levels in three Use Areas by CDM. Visual vermiculite was identified at low levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	UA-200457	Yard (front, back, side)	Common Use Areas	14,000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200458	Yard (front, back, side)	Common Use Areas	15,000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200459	Garden	Specific Use Areas	800	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200460	Overgrown areas	Limited Use Areas	250	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200461	Driveway (unpaved)	Specific Use Areas	12,000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200462	Animal pen	Specific Use Areas	400	30	0	0	0	30
CDM					27	3	0	0	30
TTEMI	UA-200463	Flowerbed	Specific Use Areas	30	30	0	0	0	30
CDM					28	2	0	0	30
TTEMI	UA-200464	Flower pot	Specific Use Areas	20	0	30	0	0	30
CDM					0	30	0	0	30

#### AD-200314

Inspection of the Sanders property was conducted on November 4, 2008. The four Use Areas identified by the TAPE were all inspected. Due to limited square footage of the garden, a total of 30 PIs could not be inspected in one of the four Use Areas. Visual vermiculite was identified at low levels in two Use Areas by CDM. Visual vermiculite was identified at low levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-200792	Flowerbed	Specific Use Areas	800	26	4	0	0	30
CDM					27	3	0	0	30
TTEMI	UA-200793	Garden	Specific Use Areas	250	10	0	0	0	10
CDM					8	2	0	0	10
TTEMI	UA-200794	Driveway (unpaved)	Specific Use Areas	10,000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200795	Yard (front, back, side)	Common Use Areas	104,000	30	0	0	0	30
CDM					30	0	0	0	30

AD-200611

Inspection of the Hicks property was conducted on November 4, 2008. The seven Use Areas identified by the TAPE were all inspected. Visual vermiculite was identified at low levels in one Use Area by CDM. Visual vermiculite was identified at intermediate levels in the same Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-200389	Garden	Specific Use Areas	935	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200390	Yard (front, back, side)	Common Use Areas	1,745	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200391	Yard (front, back, side)	Common Use Areas	4,875	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200392	Flowerbed	Specific Use Areas	100	28	0	2	0	30
CDM					20	10	0	0	30
TTEMI	UA-200393	Flowerbed	Specific Use Areas	200	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200394	Driveway (unpaved)	Specific Use Areas	400	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200395	Water Utility Aggregate/Soil	Specific Use Areas	360	30	0	0	0	30
CDM					30	0	0	0	30

AD-200852

Inspection of the Sonntag property was conducted on November 4, 2008. The six Use Areas identified by the TAPE were all inspected. One non-use area was identified but did not require inspection. Visual vermiculite was identified at low levels in two Use Areas by CDM. Visual vermiculite was identified at low to high levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-201147	Driveway (unpaved)	Specific Use Areas	1,600	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-201148	Yard (front, back, side)	Common Use Areas	50,400	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-201149	Former garden	Common Use Areas	1,000	4	20	4	2	30
CDM					26	4	0	0	30
TTEMI	UA-201150	Garden	Specific Use Areas	3,000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-201151	Wooded lot or managed forest land	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0
TTEMI	UA-201152	Pasture or field	Limited Use Areas	50,000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-201153	Flowerbed	Specific Use Areas	1,000	30	0	0	0	30
CDM					29	1	0	0	30

AD-200416

Inspection of the Chapel property was conducted on November 5, 2008. The four Use Areas identified by the TAPE were all inspected. Due to limited square footage of the flowerbed, and to more closely mirror the number of PIs collected by TTEMI from the west yard, a total of 30 PIs were not inspected in three of the four Use Areas. Visual vermiculite was not identified in any of the Use Areas by CDM. Visual vermiculite was identified at low levels in

two Use Areas by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-200360	Yard (front, back, side)	Common Use Areas	2,400	0	1	0	0	1
CDM					5	0	0	0	5
TTEMI	UA-200362	Flowerbed	Specific Use Areas	15	0	1	0	0	1
CDM					5	0	0	0	5
TTEMI	UA-200363	Wooded lot or managed forest land	Non-use Areas	440	1	0	0	0	1
CDM					5	0	0	0	5
TTEMI	UA-200364	Yard (front, back, side)	Common Use Areas	2,400	30	0	0	0	30
CDM					30	0	0	0	30

#### AD-201040

Inspection of the Fagg property was conducted on November 5, 2008. The four Use Areas identified by the TAPE were all inspected. One non-use area was identified but did not require inspection. Visual vermiculite was identified at low levels in two Use Areas by CDM. Visual vermiculite was identified at high levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-202071	Yard (front, back, side)	Common Use Areas	34,000	29	0	0	1	30
CDM					30	0	0	0	30
TTEMI	UA-202072	Driveway (unpaved)	Specific Use Areas	16,800	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-202073	Flowerbed	Specific Use Areas	350	30	0	0	0	30
CDM					23	7	0	0	30
TTEMI	UA-202074	Flower pot	Specific Use Areas	15	23	0	0	0	23
CDM					22	3	0	0	25
TTEMI	UA-202075	Wooded lot or managed forest land	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0

AD-200594

Inspection of the Rice property was conducted on November 5, 2008. The six Use Areas identified by the TAPE were all inspected. Visual vermiculite was identified at low levels in two Use Areas by CDM. Visual vermiculite was identified at low levels in one Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.

Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-200180	Yard (front, back, side)	Common Use Areas	1,982	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200181	Yard (front, back, side)	Common Use Areas	5,500	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200182	Yard (front, back, side)	Common Use Areas	5,650	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200183	Driveway (unpaved)	Specific Use Areas	600	30	0	0	0	30
CDM					29	1	0	0	30
TTEMI	UA-200184	Flowerbed	Specific Use Areas	70	26	4	0	0	30
CDM					26	4	0	0	30
TTEMI	UA-200185	Driveway (unpaved)	Specific Use Areas	1,680	30	0	0	0	30
CDM					30	0	0	0	30

AD-200865

Inspection of the McCully property was conducted on November 5, 2008. The five Use Areas identified by the TAPE were all inspected. One non-use area was identified but did not require inspection. Visual vermiculite was identified at low levels in one Use Area by CDM. Visual vermiculite was identified at intermediate levels in the same Use Area by TTEMI. A summary of the PIs listed by Use Area is provided in the table below.



Company	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	UA-200913	Yard (front, back, side)	Common Use Areas	3,000	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200914	Flowerbed	Specific Use Areas	500	29	0	1	0	30
CDM					26	4	0	0	30
TTEMI	UA-200915	Parking lot (unpaved)	Specific Use Areas	1,650	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200916	Defined play area	Specific Use Areas	10	4	0	0	0	4
CDM					5	0	0	0	5
TTEMI	UA-200917	Garden	Specific Use Areas	675	30	0	0	0	30
CDM					30	0	0	0	30
TTEMI	UA-200918	Wooded lot or managed forest land	Non-use Areas	N/A	0	0	0	0	0
CDM					0	0	0	0	0

## Conclusions

Overall, the comparison of inspection results in Use Areas where vermiculite was observed showed variations between the two semi-quantitative estimations. Variations in identification and quantification of vermiculite between the two investigations may be attributed to one or more of the following:

- Variability of the site conditions during each investigation (e.g., soil moisture, cloud cover)
- Heterogeneity of vermiculite distribution within each Use Area
- Inability of field teams to exactly replicate the PIs during each inspection
  - Exact locations of PIs are not recorded on field sketches and are intended to be random but representative of that Use Area
  - PIs performed by TTEMI were removed from each site as part of the soil sample
- Variability of PI density given access restrictions and limited areas to sample in smaller Use Areas

- Variability in field judgment of which locations to select, what to classify as vermiculite and how to assign semi-quantitative levels
- Inclusion of Use Areas such as flowerpots that are frequently moved or replaced by homeowners

## **Attachments**

Attachment A -Vermiculite Comparison Tables by Property, Visual Vermiculite Estimation Forms, Field Sketches

Attachment B - Field Logbook Notes

cc: Courtney Zamora- Volpe Center, Denver  
Dee Warren - CDM, Denver  
Thomas Cook - CDM, Libby  
CDM Project File - Denver

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200035	UA-202789	Driveway	Specific Use Areas	7,920	30	0	0	0	30
CDM	AD-200035					30	0	0	0	30
TTEMI	AD-200035	UA-202790	Yard (front, back, side)	Common Use Areas	34,754	30	0	0	0	30
CDM	AD-200035					29	1	0	0	30
TTEMI	AD-200035	UA-202792	Flower pot	Specific Use Areas	14	8	0	0	0	8
CDM	AD-200035					11	4	0	0	15
TTEMI	AD-200035	UA-202793	Wood Splitting Area	Specific Use Areas	200	10	0	0	0	10
CDM	AD-200035					30	0	0	0	30
TTEMI	AD-200035	BD-202350	Lean-to	Interior Surface Area	104	5	0	0	0	5
CDM	AD-200035					30	0	0	0	30
TTEMI	AD-200035	BD-202349	Pumphouse	Interior Surface Area	64	5	0	0	0	5
CDM	AD-200035					30	0	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101031 Page No.: 30 Site Visit Date: 8/26/2008 AD Number: 200035  
 Address: 553 (formerly 648) Forest Drive Structure Description: Property  
 Occupant: Mason Phone No.: \_\_\_\_\_  
 Owner (If different than occupant): \_\_\_\_\_ Phone No.: \_\_\_\_\_  
 Investigation Team: D. Shortman, S.Wilson Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein Visual Verification by Field Team Leader (10% of forms): N. Bein

		<b>Zone 1 BD-202350</b>	<b>Zone 2 UA-202793</b>	<b>Zone 3 BD-202349</b>	<b>Zone 4 UA-202790</b>	<b>Zone 5 UA-202789</b>	<b>Zone 6 UA-202792</b>		
<b>Type</b> (SUA/CUA/LUA/ISA)		ISA	SUA	ISA	CUA	SUA	SUA		
<b>Description</b>		LEAN-TO	WOOD CUTTING AREA	PUMPHOUSE	YARD	DRIVEWAY	FLOWERPOTS		
<b>Area Size</b> (square feet)		104	200	64	34,754	7,920	14		
<b>General Comment</b> (Cover, etc)		Dirt floor. Because of plywood on floor and miscellaneous items, area was not sampled representatively	TOPSOIL	TOPSOIL	GRASS	CHIPPED ROCK	POTTING SOIL		
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	30	30	29	30	11		
	<b>L</b>				1		4		
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	30	30	30	15		

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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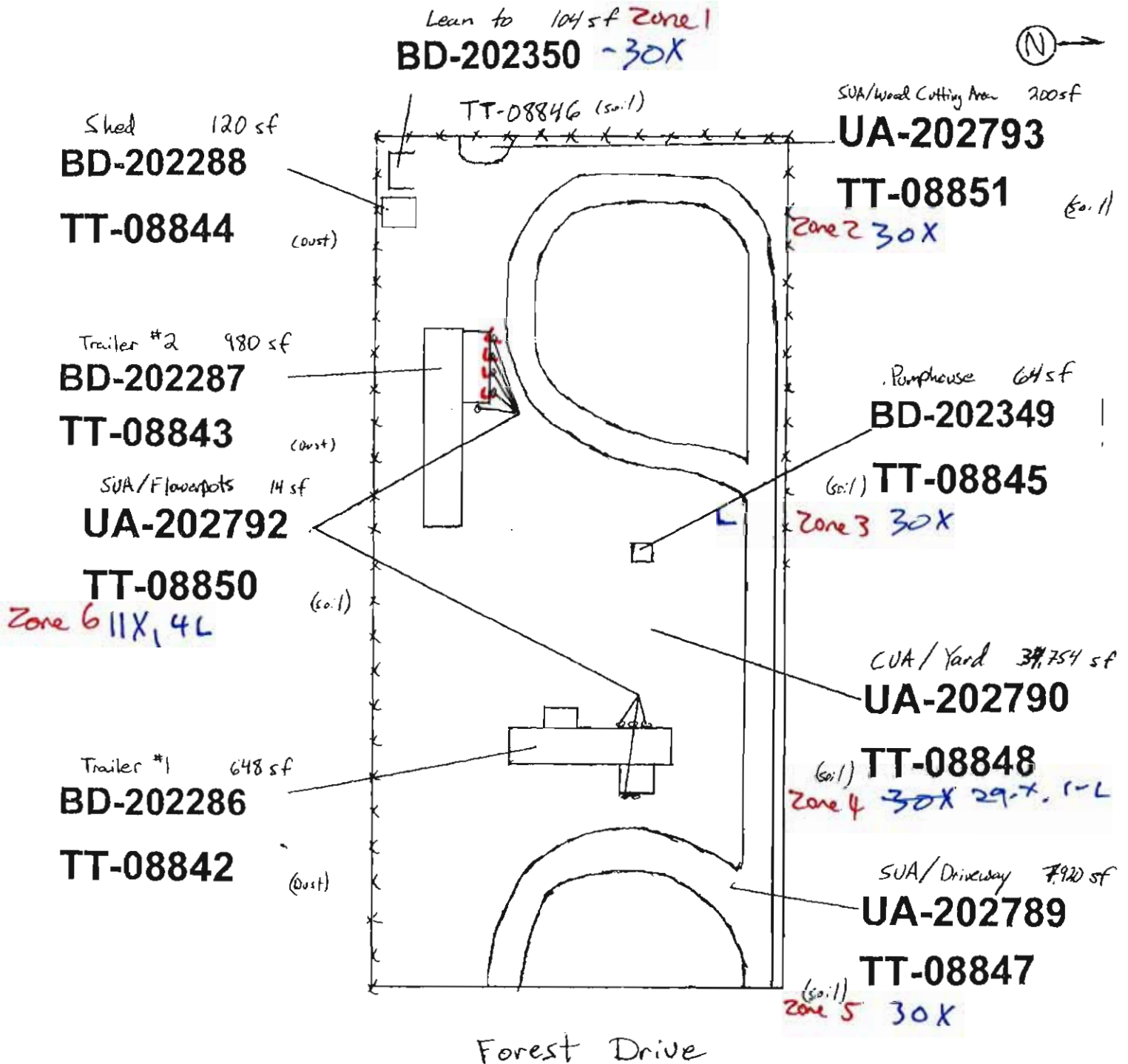
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formerly 648 Forest Drive, now 553 Forest Drive.  
owner: Mason 8-26-08

CDM team  
D.Shortman S.Wilson

**TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD**

<b>AD-200035</b>	Field Personnel BPE, ALB, LJ, TD	Date 7/8/08
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1/4" = 12'



Tetra Tech Em Inc.

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200268	UA-202759	Yard (front, back, side)	Common Use Areas	6,390	30	0	0	0	30
CDM	AD-200268					30	0	0	0	30
TTEMI	AD-200268	UA-202760	Driveway (unpaved)	Specific Use Areas	3,000	30	0	0	0	30
CDM	AD-200268					30	0	0	0	30
TTEMI	AD-200268	UA-202761	Flowerbed	Specific Use Areas	600	29	0	1	0	30
CDM	AD-200268					30	0	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101031  
 Address: 250 Estate Drive  
 Occupant: Mason  
 Owner (If different than occupant): \_\_\_\_\_

Page No.: 31

Site Visit Date: 8/26/2008

AD Number: 200268

Structure Description: Property

Phone No.: \_\_\_\_\_

Phone No.: \_\_\_\_\_

Investigation Team: D. Shortman, S.Wilson

Investigation Name: Troy Vermiculite Reinspection

Field Form Check Completed by (100% of Forms): N. Bein

Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 1 UA-202760	Zone 2 UA-202759	Zone 3 UA-202761					
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA	CUA	SUA					
<b>Description</b>		Driveway	Yard	Flowerbed					
<b>Area Size</b> (square feet)		3,000	6,390	600					
<b>General Comment</b> (Cover, etc)		CHIPPED ROCK	GRASS	TOPSOIL					
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	30	30					
	<b>L</b>								
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	30					

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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250 Estate Dr.

Mason

8/27/08

CDM team

D. Shortman S. Wilson

**TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD**

**AD-200268**

Field Personnel

JCAA, JA, MS,  
MEV

Date

7.10.08

Garage 816 ft<sup>2</sup>  
**BD-202317**

Yard 6390 ft<sup>2</sup>  
**UA-202759**

Zone 2 30-x

Porch 2244 ft<sup>2</sup>  
**BD-202316**

Driveway 3000 ft<sup>2</sup>  
**UA-202760**

Zone 1 30-x

Zone 3  
FB 600 ft<sup>2</sup> 30-x  
**UA-202761**

 = Flowerbeds

Transfer 600 ft<sup>2</sup>  
**BD-202318**



Tetra Tech Em Inc.



# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	AD-200120	UA-202816	Yard (front, back, side)	Common Use Areas	27,540	30	0	0	0	30
CDM	AD-200120					29	1	0	0	30
TTEMI	AD-200120	UA-202817	Driveway (unpaved)	Specific Use Areas	2,880	30	0	0	0	30
CDM	AD-200120					30	0	0	0	30
TTEMI	AD-200120	UA-202818	Garden	Specific Use Areas	288	12	0	0	0	12
CDM	AD-200120					25	0	0	0	25
TTEMI	AD-200120	UA-202819	Flowerbed	Specific Use Areas	48	6	0	0	0	6
CDM	AD-200120					26	4	0	0	30
TTEMI	AD-200120	UA-202820	Underneath porches or decks	Limited Use Areas	288	5	0	0	0	5
CDM	AD-200120					30	0	0	0	30
TTEMI	AD-200120	BD-202367	Carport	Interior Surface Area	432	5	0	0	0	5
CDM	AD-200120					26	4	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101031

Page No.: 32

Site Visit Date: 8/26/2008

AD Number: 200120

Address: 651 (formerly 617) Waterfront Rd

Structure Description: Property

Occupant: Boren

Phone No.: \_\_\_\_\_

Owner (If different than occupant): \_\_\_\_\_

Phone No.: \_\_\_\_\_

Investigation Team: D. Shortman, S.Wilson

Investigation Name: Troy Vermiculite Reinspection

Field Form Check Completed by (100% of Forms): N. Bein

Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		<b>Zone 1 UA-202816</b>	<b>Zone 2 UA-202817</b>	<b>Zone 3 UA-202819</b>	<b>Zone 4 UA-202818</b>	<b>Zone 5 BD-202367</b>	<b>Zone 6 UA-202820</b>		
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	SUA	SUA	SUA	ISA	LUA		
<b>Description</b>		YARD	DRIVEWAY	FLOWERBED	GARDEN	CARPORT	UNDER PORCH		
<b>Area Size</b> (square feet)		27,540	2,880	48	288	432	288		
<b>General Comment</b> (Cover, etc)		GRASS	CHIPPED ROCK	TOPSOIL	TOPSOIL	DIRT. Inspection not representative of area, as carpet and miscellaneous items covered part of floor	DIRT		
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	29	30	26	25	26	30		
	<b>L</b>	1		4		4			
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	30	25	30	30		

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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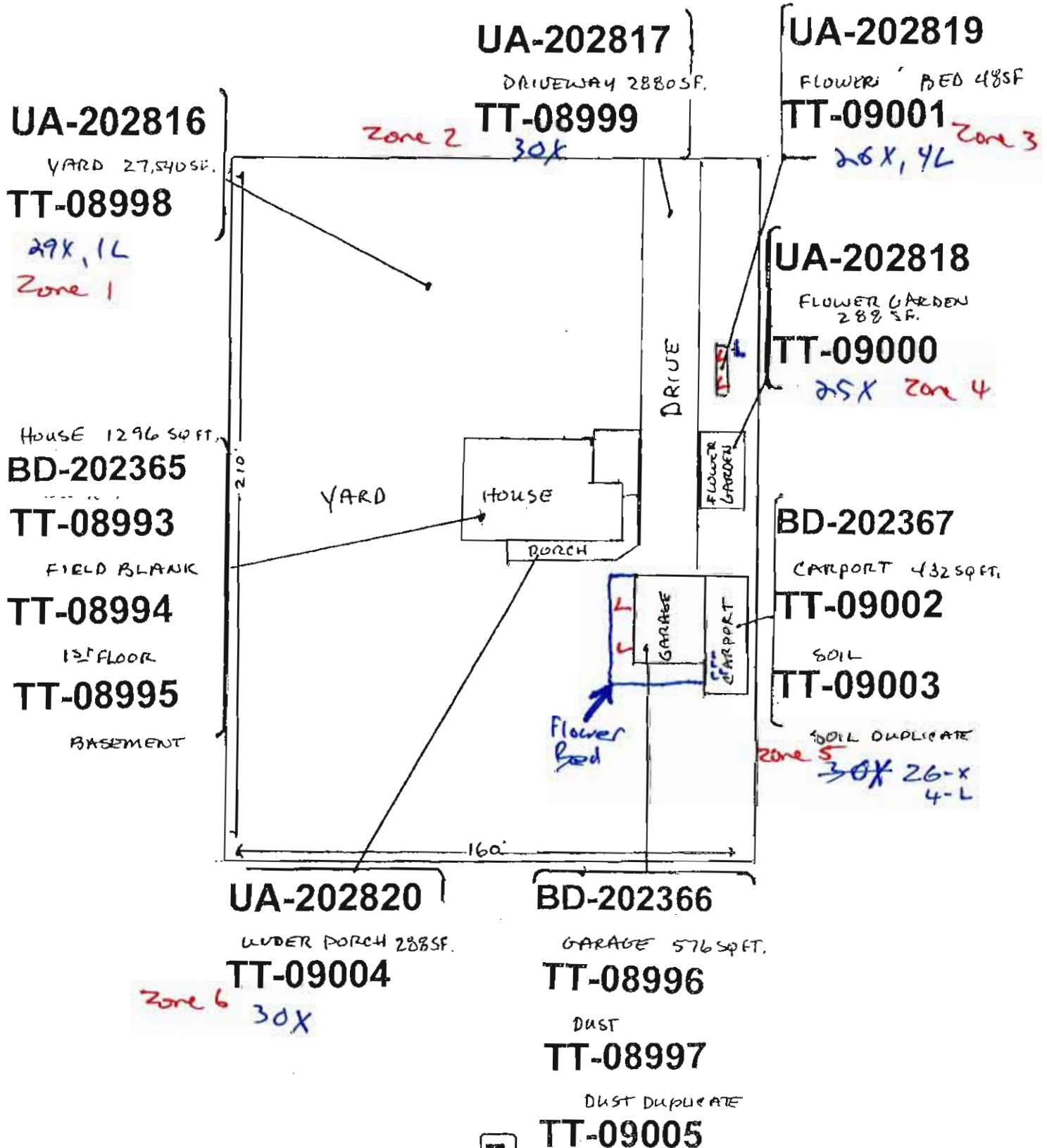
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651 (formerly 617) Waterfront Rd  
owner: Borel 8-26-08

CDM team  
D.Shortman S. Wilson

TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD

AD-200120	Field Personnel TB-LJ-BPE-ALB	Date 7/11/08
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Tetra Tech Em Inc.

2nd Floor

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200415	UA-203217	Yard (front, back, side)	Common Use Areas	11,704	30	0	0	0	30
CDM	AD-200415					29	1	0	0	30
TTEMI	AD-200415	UA-203218	Former flowerbed	Common Use Areas	120	27	3	0	0	30
CDM	AD-200415		Flowerbed	Specific Use Areas		23	7	0	0	30
TTEMI	AD-200415	UA-203219	Driveway (unpaved)	Specific Use Areas	300	18	1	1	0	20
CDM	AD-200415					28	2	0	0	30
TTEMI	AD-200415	N/A	Flower pot	Specific Use Areas	8	Not identified on sketch				0
CDM	AD-200415					21	9	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101031

Page No.: 33

Site Visit Date: 8/26/2008

AD Number: 200415

Address: 506 Grant Ave A & B

Structure Description: Property

Occupant: Keenan

Phone No.: \_\_\_\_\_

Owner (If different than occupant): \_\_\_\_\_

Phone No.: \_\_\_\_\_

Investigation Team: D. Shortman, S.Wilson

Investigation Name: Troy Vermiculite Reinspection

Field Form Check Completed by (100% of Forms): N. Bein

Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 1 UA-203217	Zone 2 UA-203218	Zone 3 Not on sketch	Zone 4 UA-203219				
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	SUA	SUA	SUA				
<b>Description</b>		YARD	FLOWERBED	FLOWERPOTS	DRIVEWAY				
<b>Area Size</b> (square feet)		11,704	120	8	300				
<b>General Comment</b> (Cover, etc)		GRASS	TOPSOIL	POTTING SOIL	CHIPPED ROCK				
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	29	23	21	28				
	<b>L</b>	1	7	9	2				
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	30	30				

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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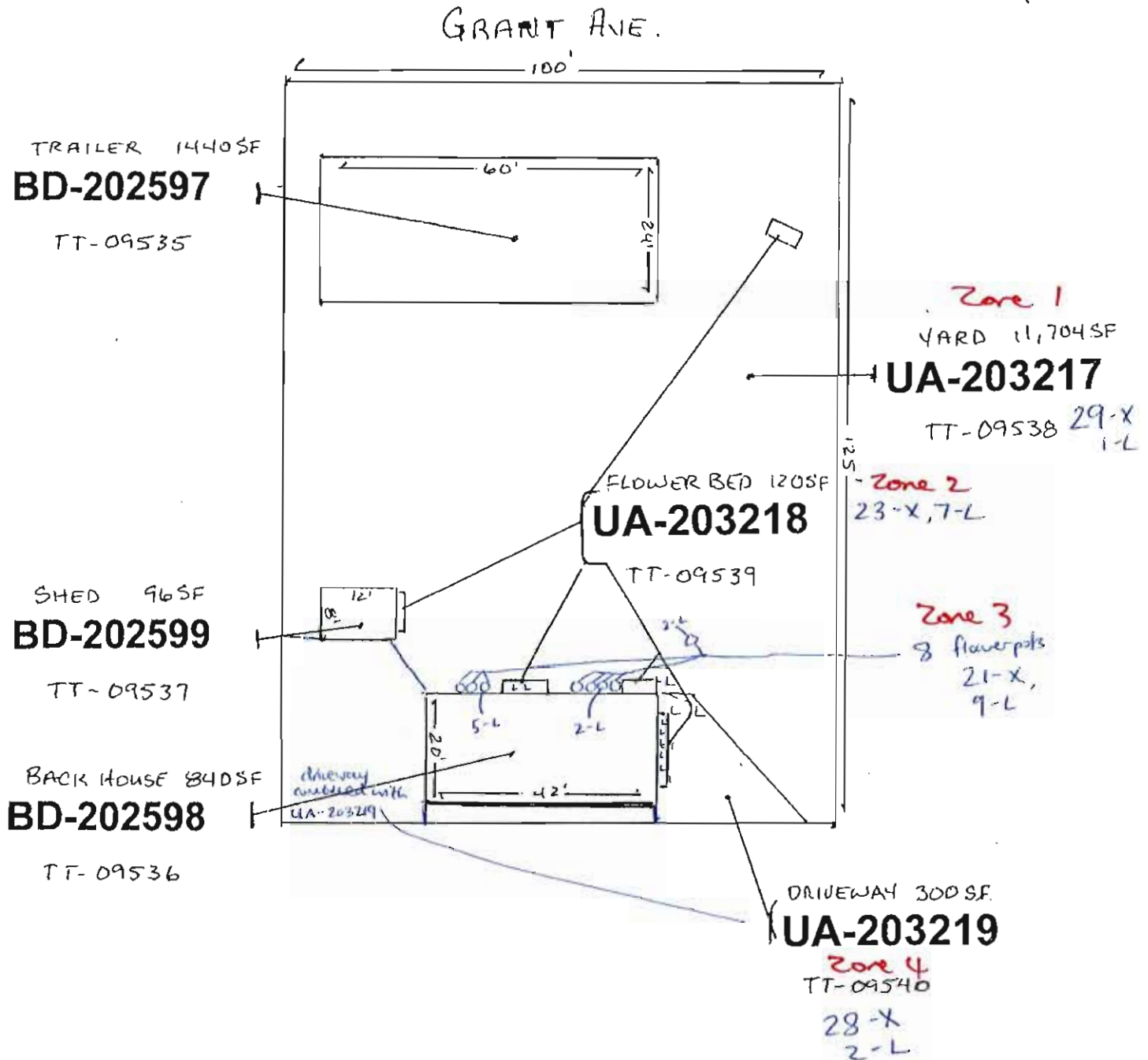


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506 Grant Ave A & B . owner: Keenan 8-26-08  
CDM team D.Shortman S.Wilson

**TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD**

	Field Personnel	Date
<b>AD-200415</b>	ALB_TB-MS.BTK	08/05/08



Tetra Tech Em Inc.

### Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200572	UA-202522	Yard (front, back, side)	Common Use Areas	6,534	30	0	0	0	30
CDM	AD-200572					28	2	0	0	30
TTEMI	AD-200572	UA-202523	Driveway (unpaved)	Specific Use Areas	150	15	0	0	0	15
CDM	AD-200572					15	0	0	0	15
TTEMI	AD-200572	UA-202524	Garden	Specific Use Areas	500	30	0	0	0	30
CDM	AD-200572					30	0	0	0	30
TTEMI	AD-200572	UA-202525	Flowerbed	Specific Use Areas	70	17	3	0	0	20
CDM	AD-200572					13	17	0	0	30
TTEMI	AD-200572	UA-202526	Former garden	Common Use Areas	600	0	0	0	30	30
CDM	AD-200572					18	6	6	0	30
TTEMI	AD-200572	UA-202527	Garden	Specific Use Areas	10	0	10	0	0	10
CDM	AD-200572					2	13	0	0	15
TTEMI	AD-200572	UA-202528	Flower pot	Specific Use Areas	2	Not inspected				0
CDM	AD-200572					5	0	0	0	5
TTEMI	AD-200572	UA-202529	Overgrown areas	Limited Use Areas	2,520	30	0	0	0	30
CDM	AD-200572					27	0	3	0	30
TTEMI	AD-200572	UA-202530	Former flowerbed	Common Use Areas	10	0	10	0	0	10
CDM	AD-200572					25	5	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101031 Page No.: 34 Site Visit Date: 8/27/2008 AD Number: 200572  
 Address: 209 Mineral Ave Structure Description: Property  
 Occupant: Walch Phone No.: \_\_\_\_\_  
 Owner (If different than occupant): \_\_\_\_\_ Phone No.: \_\_\_\_\_  
 Investigation Team: D. Shortman, S.Wilson Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 1 UA-202526	Zone 2 UA-202529	Zone 3 UA-202524	Zone 4 UA-202527	Zone 5 UA-202523	Zone 6 UA-202522	Zone 7 UA-202525	Zone 8 UA-202530
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	LUA	SUA	SUA	SUA	CUA	SUA	CUA
<b>Description</b>		FORMER GARDEN	OVERGROWN AREA	GARDEN	TOMATO GARDEN	DRIVEWAY	YARD	FLOWERBEDS	FORMER FLOWERBED
<b>Area Size</b> (square feet)		600	2,520	500	10	150	6,534	70	10
<b>General Comment</b> (Cover, etc)		TOPSOIL	LONG GRASS	TOPSOIL	POTTING SOIL	CHIPPED ROCK	GRASS	TOPSOIL	TOPSOIL
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	18	27	30	2	15	28	13	25
	<b>L</b>	6			13		2	17	5
	<b>M</b>	6	3						
	<b>H</b>								
<b>Total</b>		30	30	30	15	15	30	30	30

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101031

Page No.: 34

Site Visit Date: 8/27/2008

AD Number: 200572

Address: 209 Mineral Ave

Structure Description: Property

Occupant: Walch

Phone No.: \_\_\_\_\_

Owner (If different than occupant): \_\_\_\_\_

Phone No.: \_\_\_\_\_

Investigation Team: D. Shortman, S. Wilson

Investigation Name: Troy Vermiculite Reinspection

Field Form Check Completed by (100% of Forms): N. Bein

Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 9 UA-202528							
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA							
<b>Description</b>		FLOWERPOT							
<b>Area Size</b> (square feet)		2							
<b>General Comment</b> (Cover, etc.)		POTTING SOIL							
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	X	5							
	L								
	M								
	H								
<b>Total</b>		5							

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

\_\_\_\_\_

\_\_\_\_\_

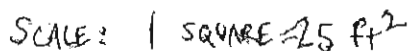
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CDM team  
D. Shortman S. Wilson

**AD-200572**

Field Personnel  
MBS, SAH, AB,  
TB

Date  
6/16/08



Tetra Tech Em Inc.

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-202006	UA-202942	Flower pot	Specific Use Areas	10	6	3	0	0	9
CDM	AD-202006					0	15	0	0	15
TTEMI	AD-202006	UA-202943	Flowerbed	Specific Use Areas	550	11	9	0	0	20
CDM	AD-202006					19	10	0	1	30
TTEMI	AD-202006	UA-202944	Yard (front, back, side)	Common Use Areas	7,200	25	5	0	0	30
CDM	AD-202006					30	0	0	0	30
TTEMI	AD-202006	UA-202945	Driveway (unpaved)	Specific Use Areas	1,800	30	0	0	0	30
CDM	AD-202006					30	0	0	0	30
TTEMI	AD-202006	UA-202946	Yard (front, back, side)	Common Use Areas	36	4	0	0	2	6
CDM	AD-202006					18	7	0	5	30
TTEMI	AD-202006	UA-202947	Former garden	Common Use Areas	240	19	9	2	0	30
CDM	AD-202006					27	3	0	0	30
TTEMI	AD-202006	BD-202345	Lean-to	Interior Surface Area	300	Dust sampled				0
CDM	AD-202006					8	2	0	0	10

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

offspring: 101031      Page No.: 35      Site Visit Date: 8/27/2008      AD Number: 202006  
 Address: 2575 Bull Lake Rd      Structure Description: Property  
 Occupant: Judkins      Phone No.: \_\_\_\_\_  
 Owner (If different than occupant): \_\_\_\_\_      Phone No.: \_\_\_\_\_  
 Investigation Team: D. Shortman, S.Wilson      Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein      Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 1 UA-202943	Zone 2 UA-202942	Zone 3 BD-202345	Zone 4 UA-202944	Zone 5 UA-202947	Zone 6 UA-202946	Zone 7 UA-202945	
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA	SUA	ISA	CUA	CUA	CUA	SUA	
<b>Description</b>		FLOWER BEDS	FLOWERPOTS	LEAN TO	YARD	FORMER GARDEN	YARD	DRIVEWAY	
<b>Area Size</b> (square feet)		550	10	300	7,200	240	36	1800	
<b>General Comment</b> (Cover, etc)		TOPSOIL (amphibole present)	POTTING SOIL	SOIL	GRASS	GRASS	GRASS (amphibole present)	CHIPPED ROCK	
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	19	0	8	30	27	18	30	
	<b>L</b>	10	15	2		3	7		
	<b>M</b>								
	<b>H</b>	1					5		
<b>Total</b>		30	15	10	30	30	30	30	

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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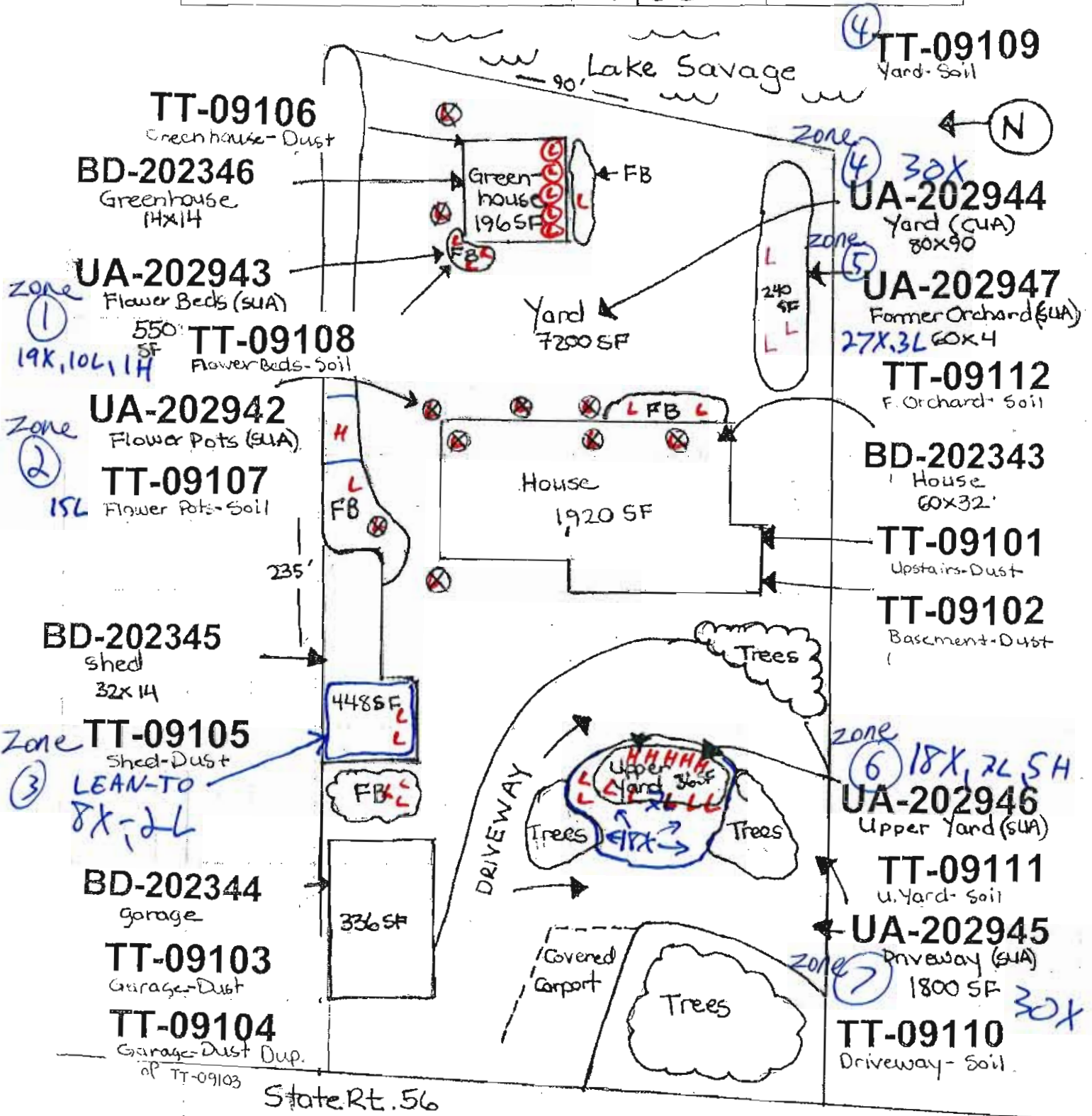
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2575 Bull Lake Rd  
Judkins  
8/27/08

CDM team  
D.Shortman S.Wilson

TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD

AD-202006	Field Personnel MEU, DJK, JJA, JC	Date 7-16-08
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⊗ = Flower Pot (10 SF)  
FB = Flower Bed



Tetra Tech Em Inc.

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200578	UA-203321	Yard (front, back, side)	Common Use Areas	7,188	28	2	0	0	30
CDM	AD-200578					29	1	0	0	30
TTEMI	AD-200578	UA-203322	Driveway (unpaved)	Specific Use Areas	1,584	18	2	0	0	20
CDM	AD-200578					30	0	0	0	30
TTEMI	AD-200578	UA-203323	Flowerbed	Specific Use Areas	475	10	20	0	0	30
CDM	AD-200578					10	20	0	0	30
TTEMI	AD-200578	UA-203324	Flower pot	Specific Use Areas	25	0	10	0	0	10
CDM	AD-200578					14	14	2	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101031

Page No.: 36

Site Visit Date: 8/27/2008

AD Number: 200578

Address: 208 Missoula Ave

Structure Description: Property

Occupant: Taylor

Phone No.:

Owner (If different than occupant):

Phone No.:

Investigation Team: D. Shortman, S.Wilson

Investigation Name: Troy Vermiculite Reinspection

Field Form Check Completed by (100% of Forms): N. Bein

Visual Verification by Field Team Leader (10% of forms):

		Zone 1 UA-203322	Zone 2 UA-203323	Zone 3 UA-203324	Zone 4 UA-203321				
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA	SUA	SUA	CUA				
<b>Description</b>		Driveway	FLOWERBEDS	FLOWERPOTS	YARD				
<b>Area Size</b> (square feet)		1,584	475	25	7,188				
<b>General Comment</b> (Cover, etc)		CHIPPED ROCK	TOPSOIL	TOPSOIL	GRASS				
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	10	14	29				
	<b>L</b>		20	14	1				
	<b>M</b>			2					
	<b>H</b>								
<b>Total</b>		30	30	30	30				

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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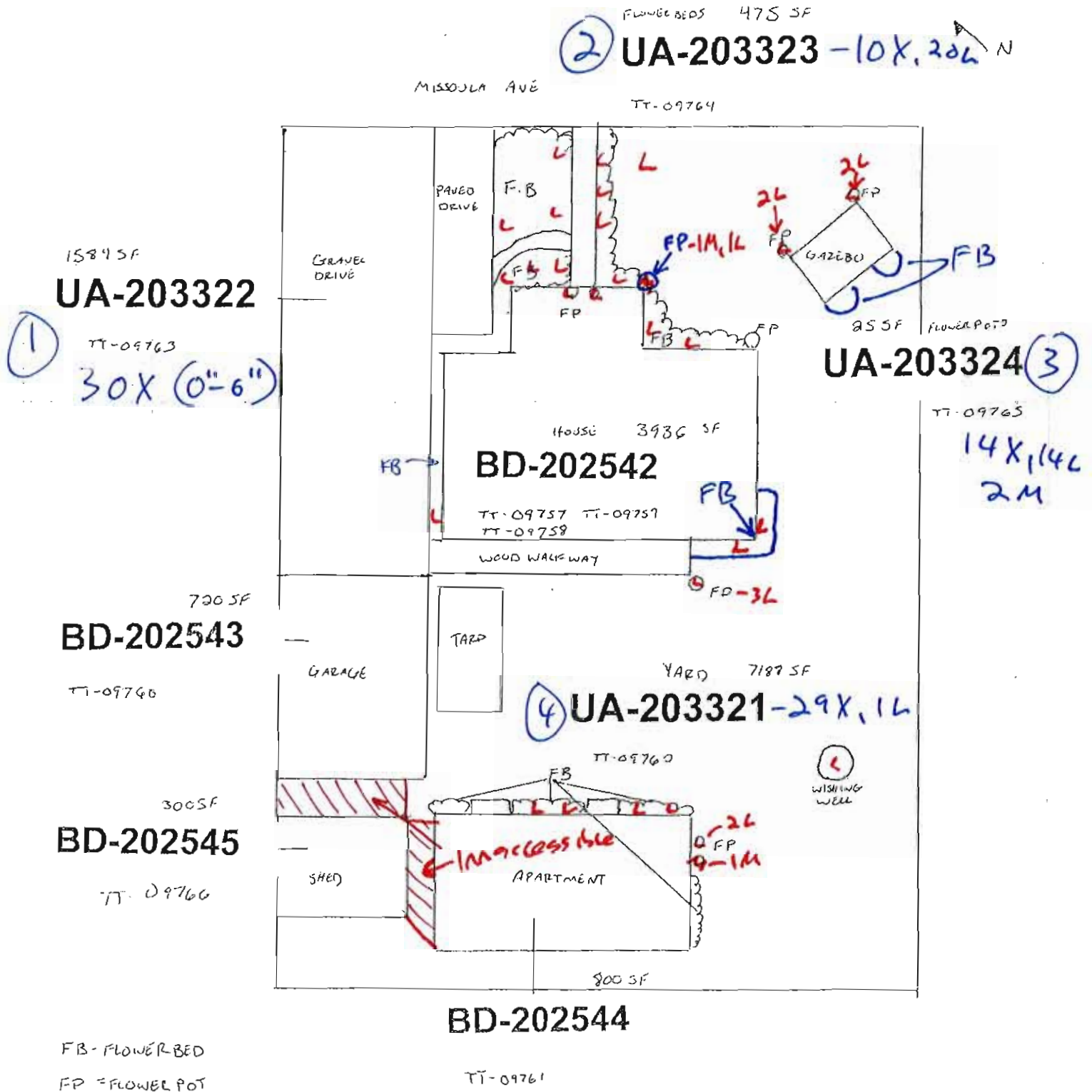
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208 Missoula Ave. owner: Taylor 8.27-08  
LOM team D.Shortman S.Wilson

TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD

AD-200578	Field Personnel X, MS, W, ALB	Date 8.14.08
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# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200118	UA-202472	Yard (front, back, side)	Common Use Areas	26,700	24	6	0	0	30
CDM	AD-200118					30	0	0	0	30
TTEMI	AD-200118	UA-202473	Driveway (unpaved)	Specific Use Areas	8,200	30	0	0	0	30
CDM	AD-200118					30	0	0	0	30
TTEMI	AD-200118	UA-202474	Flowerbed	Specific Use Areas	140	15	3	0	0	18
CDM	AD-200118					24	6	0	0	30
TTEMI	AD-200118	UA-202475	Garden	Specific Use Areas	1,800	30	0	0	0	30
CDM	AD-200118					26	4	0	0	30
TTEMI	AD-200118	UA-202476	Garden	Specific Use Areas	36	7	4	0	0	11
CDM	AD-200118					Inspected as part of yard				0

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101031

Page No.: 37

Site Visit Date: 8/27/2008

AD Number: 200118

Address: 615 Waterfront Rd

Structure Description: Property

Occupant: Brown

Phone No.:

Owner (If different than occupant):

Phone No.:

Investigation Team: D. Shortman, S.Wilson

Investigation Name: Troy Vermiculite Reinspection

Field Form Check Completed by (100% of Forms): N. Bein

Visual Verification by Field Team Leader (10% of forms):

		Zone 1 UA-202473	Zone 2 UA-202475	Zone 3 UA-202472	Zone 4 UA-202474				
Type (SUA/CUA/LUA/ISA)		SUA	SUA	CUA	SUA				
Description		DRIVEWAY	GARDEN	YARD	FLOWERBED				
Area Size (square feet)		8,200	1,800	26,700	140				
General Comment (Cover, etc)		CHIPPED ROCK	TOPSOIL	GRASS	TOPSOIL				
Pls (X=None, L=Low, M=Intermediate, H=High)	X	30	26	30	24				
	L		4		6				
	M								
	H								
Total		30	30	30	30				

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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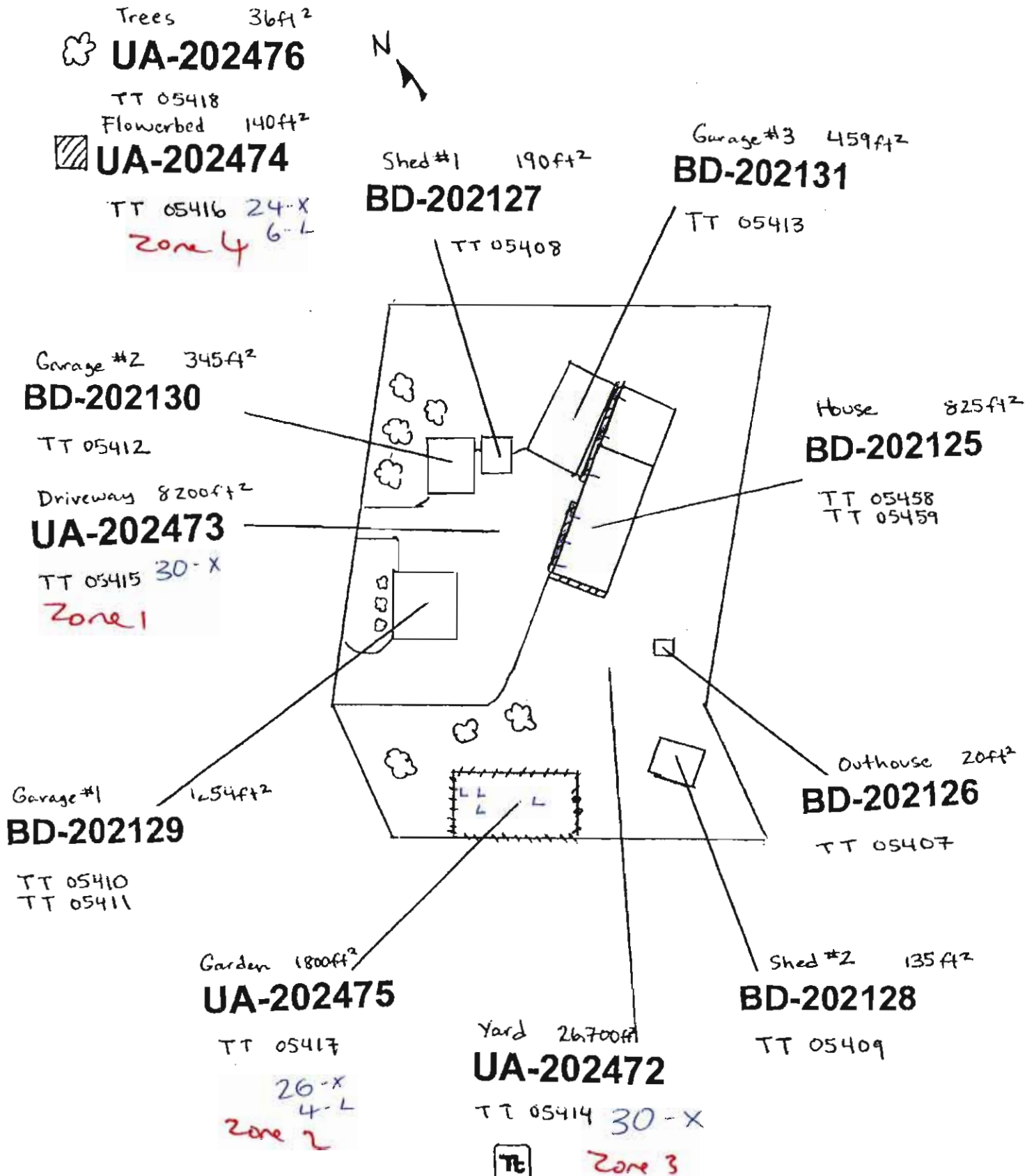


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615 Waterfront Rd owner: Brown 8-27-08  
(formerly 609) CDM team D.Shortman, S.Wilson

PROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD

<b>AD-200118</b>	Field Personnel CEM, MS, JC, LJ	Date June 20, 2008
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# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	AD-200004	UA-200193	Yard (front, back, side)	Common Use Areas	7,150	30	0	0	0	30
CDM	AD-200004					30	0	0	0	30
TTEMI	AD-200004	UA-200194	Flowerbed	Specific Use Areas	30	30	0	0	0	30
CDM	AD-200004					28	2	0	0	30
TTEMI	AD-200004	UA-200195	Driveway (unpaved)	Specific Use Areas	300	30	0	0	0	30
CDM	AD-200004					30	0	0	0	30
TTEMI	AD-200004	UA-200196	Yard (front, back, side)	Common Use Areas	7,300	30	0	0	0	30
CDM	AD-200004					30	0	0	0	30
TTEMI	AD-200004	UA-200197	Yard (front, back, side)	Common Use Areas	4,784	30	0	0	0	30
CDM	AD-200004					30	0	0	0	30
TTEMI	AD-200004	UA-200198	Driveway (unpaved)	Specific Use Areas	960	30	0	0	0	30
CDM	AD-200004					30	0	0	0	30
TTEMI	AD-200004	UA-200199	Flower pot	Specific Use Areas	30	25	0	0	0	25
CDM	AD-200004					No longer present				0
TTEMI	AD-200004	UA-200267	Wooded lot or managed	Non-use Areas	N/A	0	0	0	0	0
CDM	AD-200004					0	0	0	0	0
TTEMI	AD-200004	UA-200268	Wooded lot or managed	Non-use Areas	N/A	0	0	0	0	0
CDM	AD-200004					0	0	0	0	0
TTEMI	AD-200004	UA-200269	Wooded lot or managed	Non-use Areas	N/A	0	0	0	0	0
CDM	AD-200004					0	0	0	0	0
TTEMI	AD-200004	UA-200270	Defined play area	Specific Use Areas	50	10	0	0	0	10
CDM	AD-200004					No longer present				0

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101080</u>	Page No.: <u>3</u>	Site Visit Date: <u>10/30/2008</u>	AD Number: <u>200004</u>
Address: <u>217 Grant Ave</u>	Structure Description: <u>Property</u>		
Occupant: <u>Lundin</u>	Phone No.: _____		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>Same</u>		
Investigation Team: <u>S. Wilson, D. Shortman</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-200197	Zone 2 UA-200198	Zone 3 UA-200196	Zone 4 UA-200194	Zone 5 UA-200193	Zone 6 UA-200195		
Type (SUA/CUA/LUA/ISA)		CUA	SUA	CUA	SUA	CUA	SUA		
Description		YARD	DRIVEWAY	YARD	FLOWERBED	YARD	DRIVEWAY		
Area Size (square feet)		4784	960	7300	30	7150	300		
General Comment (Cover, etc.)		GRASS	STRUCTURAL FILL	GRASS	TOPSOIL w/ LINER	GRASS	STRUCTURAL FILL		
Pls (X=None, L=Low, M=Intermediate, H=High)	X	30	30	30	28	30	30		
	L				2				
	M								
	H								
Total		30	30	30	30	30	30		

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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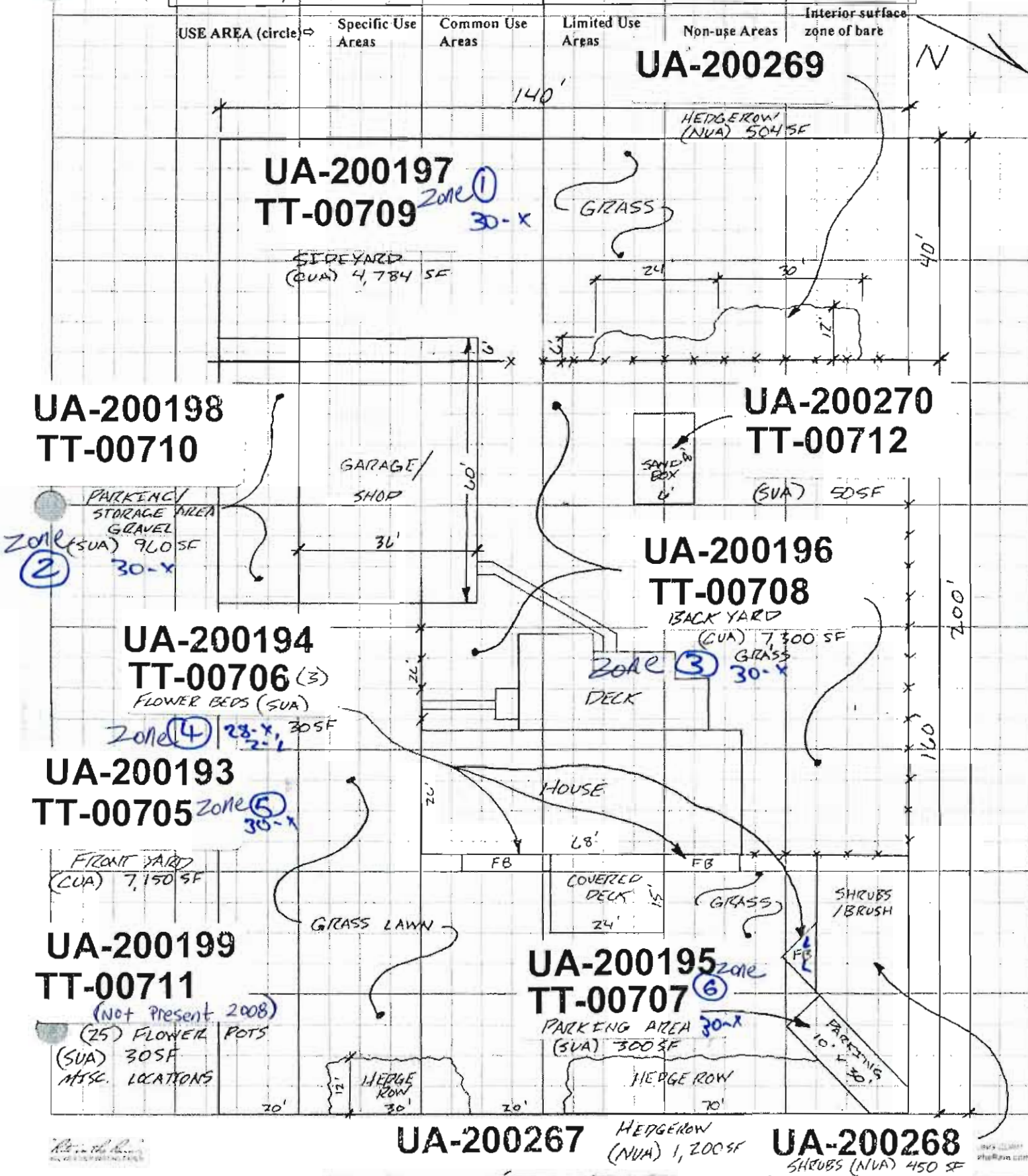


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10-30-08  
S. Wilson, D. Skipton (WM)

### FIELD DIAGRAM OF PROPERTY YARD

USE AREA (circle) ⇔	Specific Use Areas	Common Use Areas	Limited Use Areas	Non-use Areas	Interior surface zone of bare
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# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200075	UA-201260	Pasture or field	Limited Use Areas	18,000	24	6	0	0	30
CDM	AD-200075					27	3	0	0	30
TTEMI	AD-200075	UA-201261	Overgrown areas	Limited Use Areas	10,000	30	0	0	0	30
CDM	AD-200075					30	0	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101080</u>	Page No.: <u>4</u>	Site Visit Date: <u>10/30/2008</u>	AD Number: <u>200075</u>
Address: <u>1205 Forest Ave</u>	Structure Description: <u>Property</u>		
Occupant: <u>Hibb, John</u>	Phone No.: _____		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>Same</u>		
Investigation Team: <u>S. Wilson, D. Shortman</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-201260	Zone 2 UA-201261						
<b>Type</b> (SUA/CUA/LUA/ISA)		LUA	LUA						
<b>Description</b>		FIELD	FIELD						
<b>Area Size</b> (square feet)		18000	10000						
<b>General Comment</b> (Cover, etc.)		GRASS	GRASS						
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	27	30						
	<b>L</b>	3							
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30						

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Hibbs- 1205 Forest Ave

FIELD DIAGRAM OF PROPERTY YARD

10-30-08

D. Shortman (CDM)

AD NO.:

AD-200075

Field Personnel:

S. Wilson

Date:

7/30/07

Time:

1130

BE, SE TJ, MD, DB

USE AREA (circle) →

Specific Use Areas

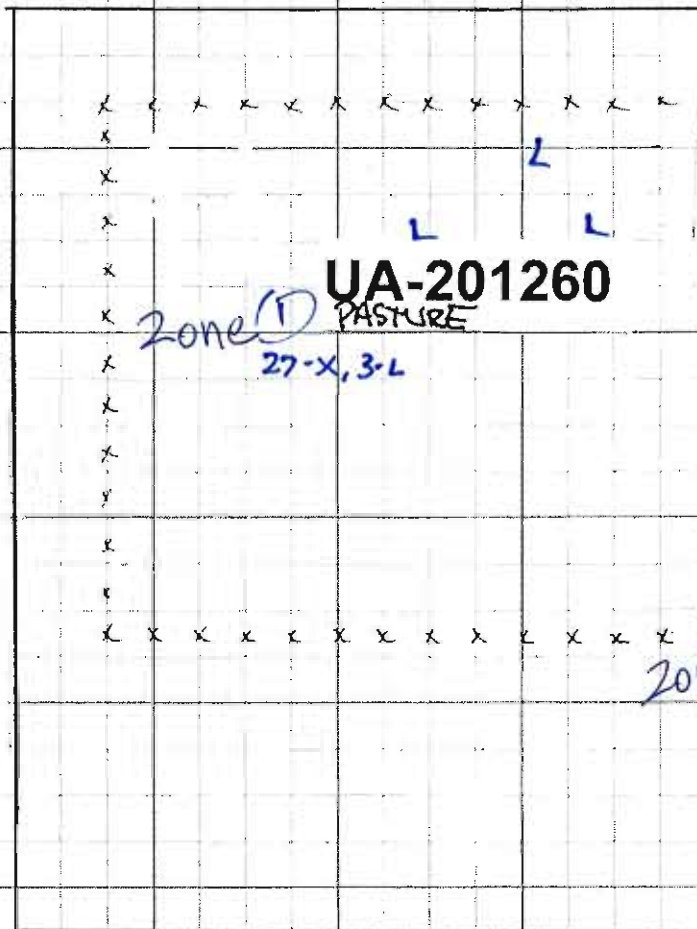
Common Use Areas

Limited Use Areas

Non-use Areas

Interior surface zone of bare soil

*[Handwritten signature]*



Zone 2 30-X  
UA-201260  
SURROUNDING AREA

NORTH



# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200421	UA-200632	Yard (front, back, side)	Common Use Areas	7,000	30	0	0	0	30
CDM	AD-200421					25	5	0	0	30
TTEMI	AD-200421	UA-200633	Flowerbed	Specific Use Areas	120	8	0	0	0	8
CDM	AD-200421					5	2	1	0	8
TTEMI	AD-200421	UA-200634	Flowerbed	Specific Use Areas	1,600	0	0	5	0	5
CDM	AD-200421					0	7	1	0	8
TTEMI	AD-200421	UA-200635	Garden	Specific Use Areas	1,800	15	0	0	0	15
CDM	AD-200421					4	11	0	0	15

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101080</u>	Page No.: <u>5</u>	Site Visit Date: <u>10/30/2008</u>	AD Number: <u>200421</u>
Address: <u>509 Grant Ave</u>	Structure Description: <u>Property</u>		
Occupant: <u>Palmer</u>	Phone No.: _____		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>Same</u>		
Investigation Team: <u>S. Wilson, D. Shortman</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-200632	Zone 2 UA-200633	Zone 3 UA-200634	Zone 4 UA-200635				
Type (SUA/CUA/LUA/ISA)		CUA	SUA	SUA	SUA				
Description		YARD	FLOWERBED	FLOWERBED	GARDEN				
Area Size (square feet)		7000	120	1600	1800				
General Comment (Cover, etc.)		GRASS	TOPSOIL	TOPSOIL	TOPSOIL				
Pls (X=None, L=Low, M=Intermediate, H=High)	X	25	5		4				
	L	5	2	7	11				
	M		1	1					
	H								
Total		30	8	8	15				

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Palmer - 509 Grant Ave

10/30/08

FIELD DIAGRAM OF PROPERTY YARD

D. S. Hartman (CDM)

AD-200421

Field Personnel:

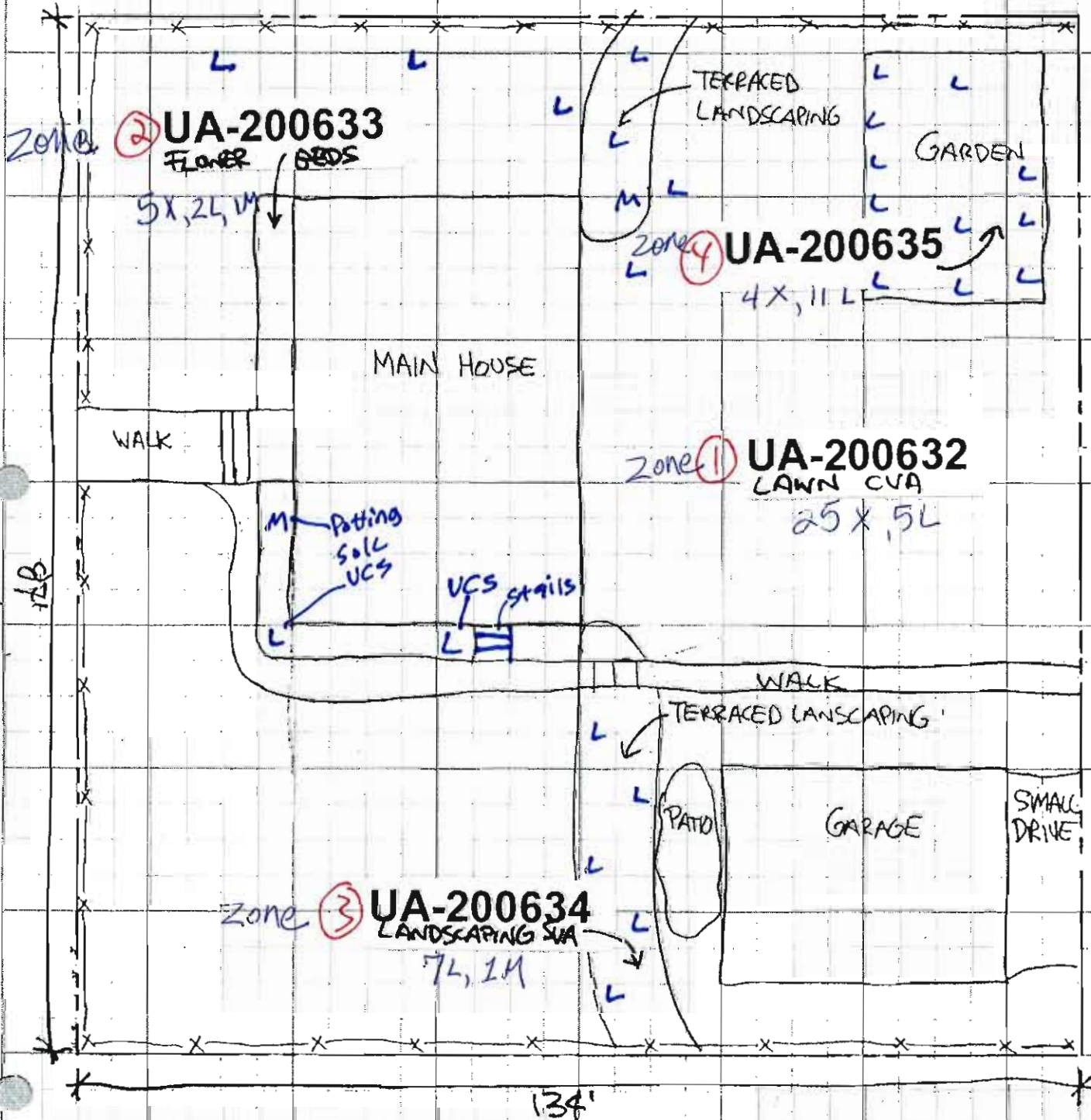
DB/JS/MD

Date: 06/27/07

Time: 1250

USE AREA (circle) → Specific Use Areas Common Use Areas Limited Use Areas Non-use Areas Interior surface zone of bare soil

NORTH



AD-200421

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200055	UA-200581	Former garden	Common Use Areas	2,450	30	0	0	0	30
CDM	AD-200055					30	0	0	0	30
TTEMI	AD-200055	UA-200762	Yard (front, back, side)	Common Use Areas	25,500	30	0	0	0	30
CDM	AD-200055					29	1	0	0	30
TTEMI	AD-200055	UA-200763	Garden	Specific Use Areas	128	10	0	0	0	10
CDM	AD-200055					10	0	0	0	10
TTEMI	AD-200055	UA-200764	Driveway (unpaved)	Specific Use Areas	3,175	30	0	0	0	30
CDM	AD-200055					30	0	0	0	30
TTEMI	AD-200055	UA-200765	Underneath porches or decks	Limited Use Areas	224	1	0	0	0	1
CDM	AD-200055					4	1	0	0	5
TTEMI	AD-200055	UA-200766	Flowerbed	Specific Use Areas	30	26	0	0	4	30
CDM	AD-200055					0	5	0	0	5

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101080</u>	Page No.: <u>6</u>	Site Visit Date: <u>10/30/2008</u>	AD Number: <u>200055</u>
Address: <u>594 Forest Dr</u>	Structure Description: <u>Property</u>		
Occupant: <u>McCain</u>	Phone No.: _____		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>Same</u>		
Investigation Team: <u>S. Wilson, D. Shortman</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-200581	Zone 2 UA-200762	Zone 3 UA-200763	Zone 4 UA-200764	Zone 5 UA-200765	Zone 6 UA-200766		
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	CUA	SUA	SUA	LUA	SUA		
<b>Description</b>		FORMER GARDEN	YARD	GARDEN	DRIVEWAY	DECK	FLOWERBED		
<b>Area Size</b> (square feet)		2450	25500	128	3175	224	30		
<b>General Comment</b> (Cover, etc.)		GRASS	GRASS	TOPSOIL w/ LINER	STRUCTURAL FILL	COMMON FILL	TOPSOIL		
<b>Pls</b> (X=None, L=Low, M=intermediate, H=High)	<b>X</b>	30	29	10	30	4			
	<b>L</b>		1			1	5		
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	10	30	5	5		

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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McGinn-594 Forest Dr

FIELD DIAGRAM OF PROPERTY YARD

10/30/08

D. Shortman (CDM)

S. Wilson

AD NO.:

AD-200055

Field Personnel:

MU, CM, JC, NS

Date: 6.15.07

Time:

USE AREA (circle) →

Specific Use Areas

Common Use Areas

Limited Use Areas

Non-use Areas

Interior surface zone of bare soil

1" = 30'

(F#6) FORMER ~~EDGE~~ GARDENS = 2450 ft<sup>2</sup>

GRAVEL DRIVEWAY - 3175 ft<sup>2</sup>

VEGETABLE GARDEN - 128 ft<sup>2</sup>

FLOWER BEDS 30 ft<sup>2</sup>

STAKE

N

GARDEN SHED

LEAN TO

GARAGE

TOOL SHED

250'

Zone ③ 10X

SUA GARDEN (VEGETABLE)

UA-200763

TT- 01375

Zone ⑤ 15' 4X, 1L

UA-UNDER

UA-200765

TT- 01377

DECK

CANOPY

Flower beds

Zone ④ 30X

SUA GRAVEL DRIVE

UA-200764

TT- 01376

Zone ⑥ 5L house

UA-200766

TT- 01378

Pump house

Zone ⑦ 30X

UA-200581

TT- 00920

(F#6)

CUA - LAWN

Zone ② UA-200762

TT- 01374

29X, 1L

175'

FOREST DR.

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200007	UA-200779	Yard (front, back, side)	Common Use Areas	9,000	30	0	0	0	30
CDM	AD-200007					30	0	0	0	30
TTEMI	AD-200007	UA-200780	Driveway (unpaved)	Specific Use Areas	700	30	0	0	0	30
CDM	AD-200007					30	0	0	0	30
TTEMI	AD-200007	UA-200781	Flowerbed	Specific Use Areas	60	30	0	0	0	30
CDM	AD-200007					30	0	0	0	30
TTEMI	AD-200007	UA-200801	Flower pot/Garden	Specific Use Areas	30	30	0	0	0	30
CDM	AD-200007					20	10	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI



**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101080

Page No.: 7

Site Visit Date: 10/31/2008

AD Number: 200007

Address: 218 Mineral Ave

Structure Description: Property

Occupant: Speck

Phone No.: \_\_\_\_\_

Owner (If different than occupant): Same

Phone No.: Same

Investigation Team: D. Shortman, S. Wilson

Investigation Name: Troy Vermiculite Reinspection

Field Form Check Completed by (100% of Forms): N. Bein

Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 1 UA-200779	Zone 2 UA-200780	Zone 3 UA-200781	Zone 4 UA-200801				
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	SUA	SUA	SUA				
<b>Description</b>		YARD	DRIVEWAY	FLOWERBED	GARDEN				
<b>Area Size</b> (square feet)		9000	700	60	30				
<b>General Comment</b> (Cover, etc.)		GRASS	STRUCTURAL FILL	TOPSOIL	TOPSOIL				
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	30	30	20				
	<b>L</b>				10				
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	30	30				

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SPECK-218 Mineral Ave

10/31/08

FIELD DIAGRAM OF PROPERTY YARD

Dr. Shortman (CDM)  
S. Wilson

AD NO.: **AD-200007**

Field Personnel:  
MJD, BE, TJ, JC, RR

Date: 6/25/07

Time: 1300

USE AREA (circle) →

Specific Use Areas

Common Use Areas

Limited Use Areas

Non-use Areas

Interior surface  
zone of bare soil

N

Mineral Street

70'

SIDEWALK

**UA-200779**

YARD

**TT-01527**

30X

**BD-200838**

Primary

House

15

25

20'

22'

140

3rd

**UA-200780**

UNPAVED Drive

**TT-01528**

30X

**UA-200781**

Flower Beds

**TT-01529**

30X

CARPORT

15'

17'

12'

15'

22'

**UA-200801**

Vegetable GARDEN

**TT-01530**

20X, 3/10L

DS  
10/31/08

**BD-200839**

SHED

**TT-01533**

ALLEY

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200265	UA-202902	Yard (front, back, side)	Common Use Areas	66,113	24	6	0	0	30
CDM	AD-200265					29	1	0	0	30
TTEMI	AD-200265	UA-202903	Wooded lot or managed	Non-use Areas	N/A	0	0	0	0	0
CDM	AD-200265					0	0	0	0	0
TTEMI	AD-200265	UA-202904	Flowerbed	Specific Use Areas	48	14	0	0	0	14
CDM	AD-200265					15	0	0	0	15
TTEMI	AD-200265	UA-202905	Flower pot	Specific Use Areas	6	4	0	0	0	4
CDM	AD-200265					No longer present				0
TTEMI	AD-200265	UA-202906	Garden	Specific Use Areas	76	11	4	0	0	15
CDM	AD-200265					10	5	0	0	15
TTEMI	AD-200265	UA-202907	Driveway (unpaved)	Specific Use Areas	583	30	0	0	0	30
CDM	AD-200265					30	0	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101080

Page No.: 8

Site Visit Date: 10/31/2008

AD Number: 200265

Address: 271 Silver Spur Loop Rd

Structure Description: Property

Occupant: Scott

Phone No.: \_\_\_\_\_

Owner (If different than occupant): Same

Phone No.: Same

Investigation Team: D. Shortman, S. Wilson

Investigation Name: Troy Vermiculite Reinspection

Field Form Check Completed by (100% of Forms): N. Bein

Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 1 UA-202902	Zone 2 UA-202904	Zone 3 UA-202906	Zone 4 UA-202907				
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	SUA	SUA	SUA				
<b>Description</b>		YARD	FLOWERBED	GARDEN	DRIVEWAY				
<b>Area Size</b> (square feet)		66113	48	76	583				
<b>General Comment</b> (Cover, etc.)		GRASS	TOPSOIL	TOPSOIL	STRUCTURAL FILL				
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	29	15	10	30				
	<b>L</b>	1		5					
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	15	15	30				

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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271 Silver Spur Loop

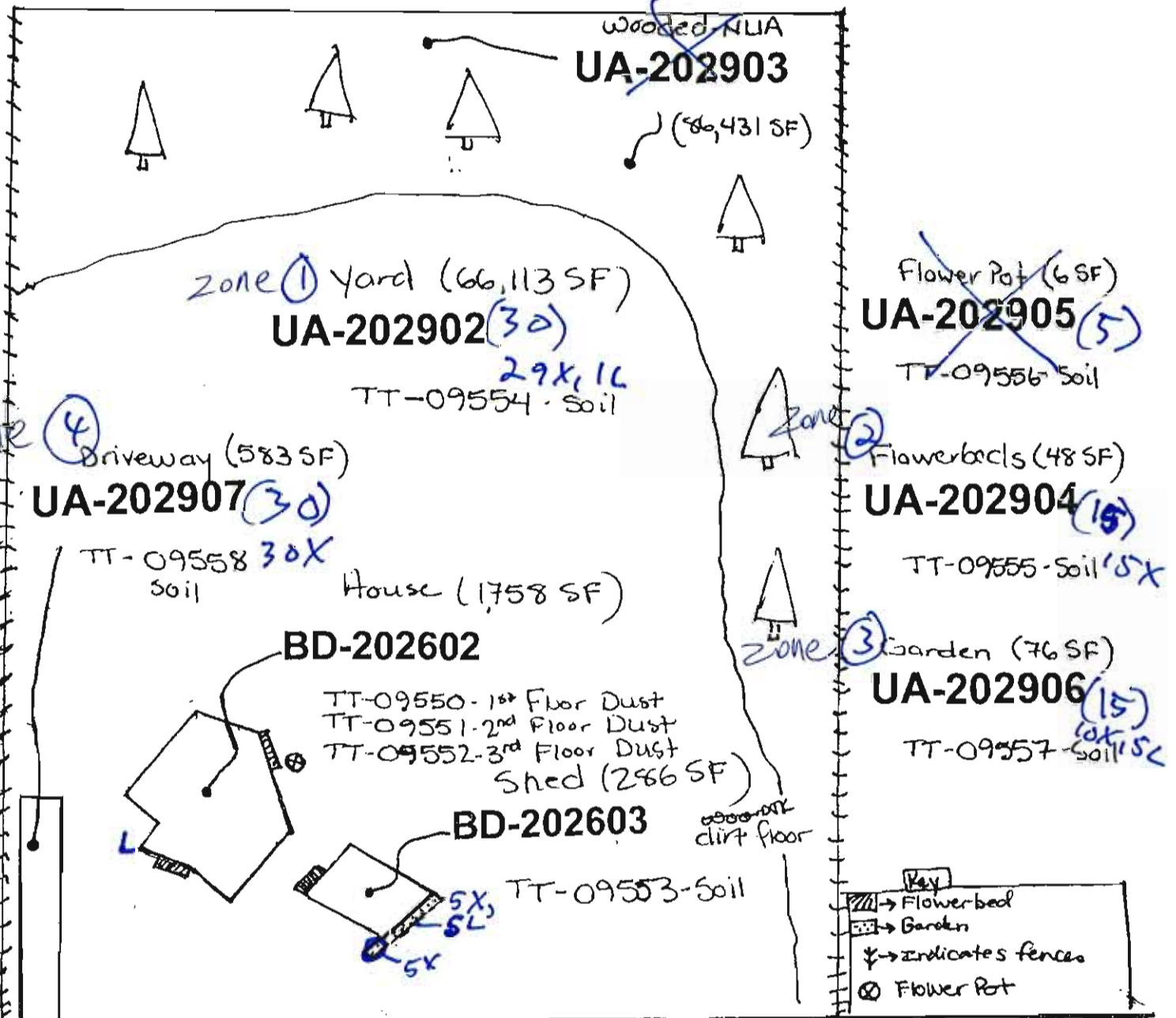
Beardley-Scott

10/31/08

D. Scott + R. S. Wilson (CDH)

TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD

AD-200265	Field Personnel ALB, MS, DJK	Date 08/06/08
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Tetra Tech Em Inc.

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200150	UA-201267	Yard (front, back, side)	Common Use Areas	24,278	30	0	0	0	30
CDM	AD-200150					30	0	0	0	30
TTEMI	AD-200150	UA-201268	Driveway (unpaved)	Specific Use Areas	15,198	30	0	0	0	30
CDM	AD-200150					30	0	0	0	30
TTEMI	AD-200150	UA-201269	Flowerbed	Specific Use Areas	300	30	0	0	0	30
CDM	AD-200150					29	1	0	0	30
TTEMI	AD-200150	UA-201270	Wooded lot or managed f	Non-use Areas	N/A	0	0	0	0	0
CDM	AD-200150					0	0	0	0	0

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101080</u>	Page No.: <u>9</u>	Site Visit Date: <u>10/31/2008</u>	AD Number: <u>200150</u>
Address: <u>1275 Forest Ave</u>	Structure Description: <u>Property</u>		
Occupant: <u>Rayson</u>	Phone No.: _____		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>Same</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-201267	Zone 2 UA-201268	Zone 3 UA-201269					
Type (SUA/CUA/LUA/ISA)		CUA	SUA	SUA					
Description		YARD	DRIVEWAY	FLOWERBED					
Area Size (square feet)		24278	15198	300					
General Comment (Cover, etc.)		GRASS	STRUCTURAL FILL	TOPSOIL					
Pls (X=None, L=Low, M=Intermediate, H=High)	X	30	30	29					
	L			1					
	M								
	H								
Total		30	30	30					

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Rayson-1275 Forest Ave

10/31/08

D. S. G. + M. G. (CDM)

S. Wilson

FIELD DIAGRAM OF PROPERTY YARD

AD NO.:

AD-200150

Field Personnel:

MEB, JLT, SE

Date: 7/31/2007

Time: 1317

USE AREA (circle)

Specific Use Areas

Common Use Areas

Limited Use Areas

Non-use Areas

Interior surface zone of bare soil.

UA-201269

300ft<sup>2</sup>

TT-02835

Zone ③

29X12

Primary Residence  
BD-201192

TT-02829

TT-02830

UA-201268

Driveway 15,198ft<sup>2</sup>

TT-02834

30X

Zone ①  
UA-201267

Lawn 24,278.2ft<sup>2</sup> Common Use - Lawn

TT-02833

30X



Garage  
BD-201193

TT-02831

Shed 100ft<sup>2</sup>  
BD-201194

TT-02832

UA-201270

Non-Use 21,918 ft<sup>2</sup>



Non-Use Area



Driveway



Flower Garden



# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200692	UA-201907	Driveway (unpaved)	Specific Use Areas	1,200	30	0	0	0	30
CDM	AD-200692					30	0	0	0	30
TTEMI	AD-200692	UA-201908	Flowerbed	Specific Use Areas	170	11	0	0	1	12
CDM	AD-200692					11	1	0	0	12

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101080</u>	Page No.: <u>10</u>	Site Visit Date: <u>10/31/2008</u>	AD Number: <u>200692</u>
Address: <u>112 E Missoula Ave</u>	Structure Description: <u>Property</u>		
Occupant: <u>Town Pump</u>	Phone No.: _____		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>Same</u>		
Investigation Team: <u>D. Shortman, S. Wilson</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-201907	Zone 2 UA-201908						
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA	SUA						
<b>Description</b>		DRIVEWAY	FLOWERBED						
<b>Area Size</b> (square feet)		1200	170						
<b>General Comment</b> (Cover, etc.)		STRUCTURAL FILL	TOPSOIL						
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	11						
	<b>L</b>		1						
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	12						

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Town Pump - Missoula Ave

10/31/08

D. Scott + Max (CDM)

FIELD DIAGRAM OF PROPERTY YARD

AD NO.:

**AD-200692**

Field Personnel:

S. Wilson

Date:

8-8-07

Time:

1400

USE AREA (circle)⇒

Specific Use Areas

Common Use Areas

Limited Use Areas

Non-use Areas

Interior surface zone of bare soil

**BD-200920**

TT-03141 1st Flr  
TT-03142 BASEMENT  
TT-03146 Dup Base

2010 ② Flower Beds 170 SF  
**UA-201908**

09/10/07  
12  
11X,  
1L  
(TT-03144  
TT-03145 Dup)

2010 ① DRIVE (GRAVEL)  
**UA-201907**

30X (TT-03143)

G  
R  
A  
V  
E  
L

P  
A  
V  
E  
D

P  
A  
R  
K  
I  
N  
G

GAS PUMPS

GAS PUMPS

Hwy 2

125'

1L  
About  
Halfway  
up the  
Building

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	AD-200014	UA-200156	Yard (front, back, side)	Common Use Areas	1,500	30	0	0	0	30
CDM	AD-200014					30	0	0	0	30
TTEMI	AD-200014	UA-200157	Yard (front, back, side)	Common Use Areas	2,500	30	0	0	0	30
CDM	AD-200014					30	0	0	0	30
TTEMI	AD-200014	UA-200158	Flowerbed	Specific Use Areas	30	5	0	0	0	5
CDM	AD-200014					5	0	0	0	5
TTEMI	AD-200014	UA-200159	Flowerbed	Specific Use Areas	9	3	0	0	0	3
CDM	AD-200014					4	1	0	0	5
TTEMI	AD-200014	UA-200225	Flowerbed	Specific Use Areas	6	3	0	0	0	3
CDM	AD-200014					No longer present				0

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101080  
 Address: 403 N 3rd St  
 Occupant: Jones  
 Owner (If different than occupant): Same

Page No.: 11

Site Visit Date: 11/3/2008

AD Number: 200014

Structure Description: Property

Phone No.:

Phone No.: Same

Investigation Team: S. Wilson, D. Shortman

Investigation Name: Troy Vermiculite Reinspection

Field Form Check Completed by (100% of Forms): N. Bein

Visual Verification by Field Team Leader (10% of forms):

		Zone 1 UA-200156	Zone 2 UA-200157	Zone 3 UA-200158	Zone 4 UA-200159				
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	CUA	SUA	SUA				
<b>Description</b>		YARD	YARD	FLOWERBED	FLOWERBED				
<b>Area Size</b> (square feet)		1500	2500	30	9				
<b>General Comment</b> (Cover, etc.)		GRASS	GRASS	TOPSOIL	TOPSOIL				
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	30	5	4				
	<b>L</b>				1				
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	5	5				

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

Jones - 403 N 3rd St

PC 1 of 1

FIELD DIAGRAM OF PROPERTY YARD

11/3/08

AD No **AD-200014**

Field Personnel: TAPZ team #1  
NTS, SA, JC, MSD

D. Shorkman  
S. Wilson (CDM)

Date: 6/1/07

Time: 1300

**UA-200225**

USE AREA (circle) ⇒ Specific Use Areas

Common Use Areas

Limited Use Areas

No. **TT-00757**

50'

Does NOT Exist

TAMPA GARDEN  
SUA  
6 SF

**UA-200157**

**TT-00754**

30X

YARD  
CVA

Zone ④ **UA-200159**

**TT-00756**

4X12

4X12

403 3RD

2 3' FLWBR  
SUA  
9 SF

PRIMARY RESIDENCE  
BUILDING

**BD-200431**

YARD  
CVA

YARD  
CVA

125'

X X X

FLOWER BED SUA  
16'

**UA-200158**

**TT-00755**

Zone ① **UA-200156**

**TT-00753**

30X

YARD  
CVA

Zone ③ 5X

3RD

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200266	UA-200810	Former garden	Common Use Areas	6,000	30	0	0	0	30
CDM	AD-200266					30	0	0	0	30
TTEMI	AD-200266	UA-200811	Yard (front, back, side)	Common Use Areas	60,000	30	0	0	0	30
CDM	AD-200266					24	6	0	0	30
TTEMI	AD-200266	UA-200812	Flowerbed	Specific Use Areas	635	28	2	0	0	30
CDM	AD-200266					0	30	0	0	30
TTEMI	AD-200266	UA-200813	Driveway (unpaved)	Specific Use Areas	1,750	30	0	0	0	30
CDM	AD-200266					30	0	0	0	30
TTEMI	AD-200266	UA-200814	Flower pot	Specific Use Areas	12	11	0	0	0	11
CDM	AD-200266					0	11	0	0	11
TTEMI	AD-200266	UA-200815	Pasture or field	Limited Use Areas	40,000	30	0	0	0	30
CDM	AD-200266					30	0	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101080 Page No.: 12 Site Visit Date: 11/3/2008 AD Number: 200266  
 Address: Spur Loop Rd Structure Description: Property  
 Occupant: Pluger Phone No.: \_\_\_\_\_  
 Owner (If different than occupant): Same Phone No.: Same  
 Investigation Team: S. Wilson, D. Shortman Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 1 UA-200810	Zone 2 UA-200811	Zone 3 UA-200812	Zone 4 UA-200813	Zone 5 UA-200814	Zone 6 UA-200815		
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	CUA	SUA	SUA	SUA	LUA		
<b>Description</b>		FORMER GARDEN	YARD	FLOWERBED	DRIVEWAY	FLOWERPOT	FIELD		
<b>Area Size</b> (square feet)		6000	60000	635	1750	12	40000		
<b>General Comment</b> (Cover, etc.)		GRASS	GRASS	TOPSOIL	STRUCTURAL FILL	POTTING SOIL	GRASS		
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	24		30		30		
	<b>L</b>		6	30		11			
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	30	30	11	30		

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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# Pluger-Spur Loop Rd

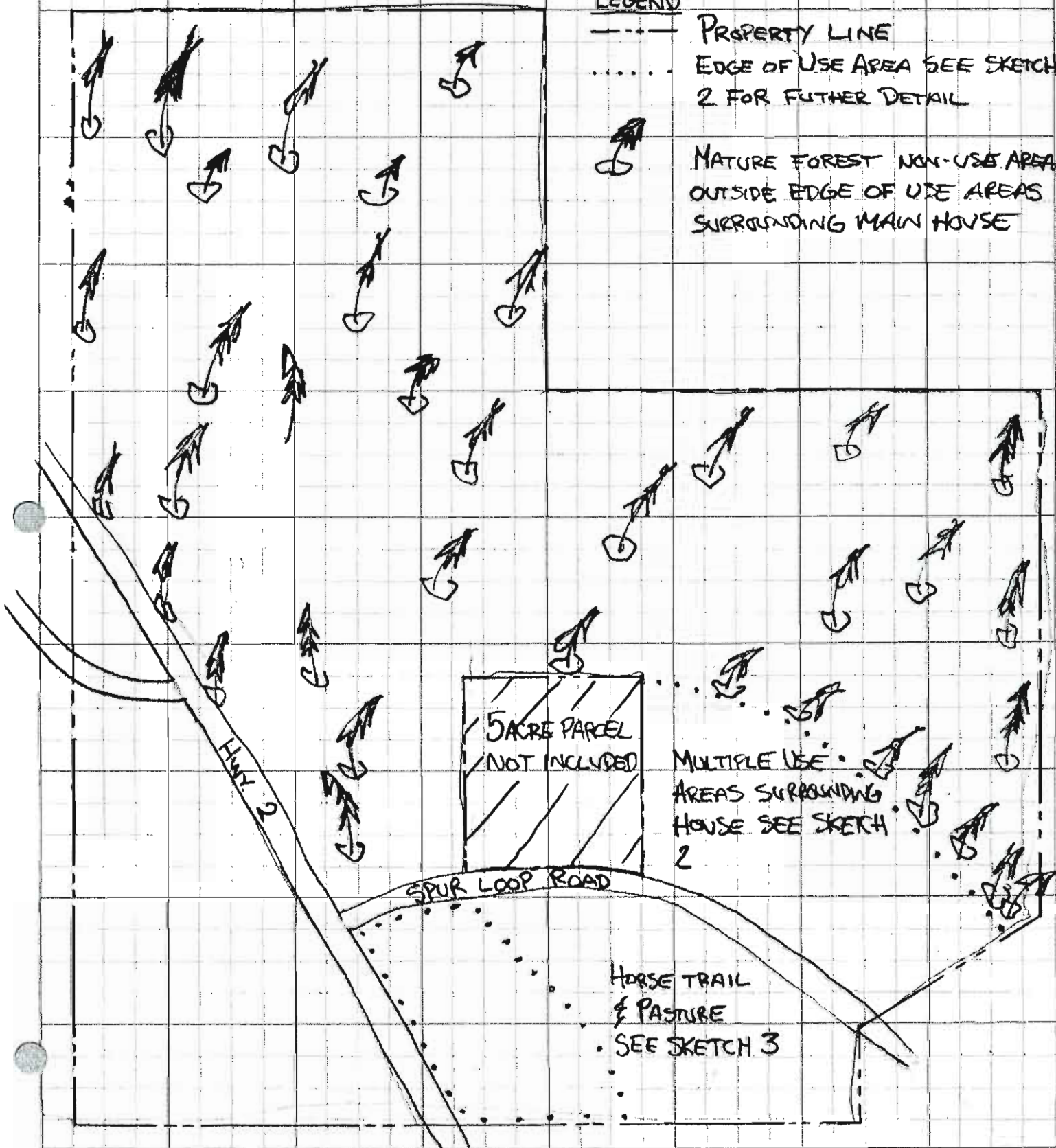
11/3/08 D. S. Hoffman  
S. Wilson (CDM)

SKETCH 1 OF 3

NORTH AD200266  
06/26/07

## LEGEND

- PROPERTY LINE
- ..... EDGE OF USE AREA SEE SKETCH 2 FOR FURTHER DETAIL
-  NATURE FOREST NON-USE AREA OUTSIDE EDGE OF USE AREAS SURROUNDING MAIN HOUSE



Pluger-Spur Loop Rd  
11/3/08 D. Shortman, S. Wilson  
NORTH AD200266  
06/26/07  
(CDM)

NON USE MATURE FOREST

SKETCH 2 OF 3

Zone ② UA-200811  
MAIN YARD CUA  
24X.6L

BREAK IN  
SCALE

BD-200739  
CHICKEN COOP

CHICKEN

WELL

FORMER GARDEN

PUMPHOUSE

BD-200740

Zone ① UA-200810  
30X

STORAGE

BD-200741

Flower Pot #5  
6L UA-200814

BD-200738

BD-200737

GARAGE

FORMER  
GARAGE  
SHED

FLOWER  
BED

PORCH

MAIN HOUSE  
BD 200736

FBS = 30L

DRIVE/  
PARKING

SPUR LOOP ROAD

HORSE  
CORRAL

Zone ④ UA-200813  
30X

Zone ③ UA-200812  
FLOWERBEDS COMBED 30L

Zone ⑤ UA-200814  
FLOWER POTS 11L

LEGEND

PROPERTY LINE

EDGE OF NUA (MATURE FOREST)

MATURE FOREST



Pluger - Spur Loop Rd

11/3/07 D. Shortman, S. Wilson (COM)

SKETCH 3 OF 3

NORTH AD200266

06/26/07

MATURE FOREST NORTH OF SPUR LOOP ROAD (NVA)

SPUR LOOP ROAD

TO MAIN  
HOUSE & USE  
AREAS

MATURE FOREST  
EAST OF SPUR  
LOOP ROAD

(NVA)

Hwy 2

Zone (6)

UA-200815

HORSE TRAIL &  
PASTURE

30X

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	AD-200720	UA-200788	Flowerbed	Specific Use Areas	100	18	4	8	0	30
CDM	AD-200720					19	11	0	0	30
TTEMI	AD-200720	UA-200789	Driveway (unpaved)	Specific Use Areas	2,100	30	0	0	0	30
CDM	AD-200720					30	0	0	0	30
TTEMI	AD-200720	UA-200790	Underneath porches or decks	Limited Use Areas	400	4	0	0	0	4
CDM	AD-200720					1	4	0	0	5
TTEMI	AD-200720	UA-200791	Yard (front, back, side)	Common Use Areas	12,180	30	0	0	0	30
CDM	AD-200720					28	2	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101080 Page No.: 13 Site Visit Date: 11/3/2008 AD Number: 200720  
 Address: 102 W Missoula Ave Structure Description: Property  
 Occupant: Downey Phone No.: \_\_\_\_\_  
 Owner (If different than occupant): Same Phone No.: Same  
 Investigation Team: S. Wilson, D. Shortman Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 1 UA-200788	Zone 2 UA-200789	Zone 3 UA-200790	Zone 4 UA-200791				
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA	SUA	LUA	CUA				
<b>Description</b>		FLOWERBED	DRIVEWAY	DECK	YARD				
<b>Area Size</b> (square feet)		100	2100	400	12180				
<b>General Comment</b> (Cover, etc.)		TOPSOIL	STRUCTURAL FILL	COMMON FILL	GRASS				
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	19	30	1	28				
	<b>L</b>	11		4	2				
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	5	30				

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Downey - 102 W Missoula Ave

FIELD DIAGRAM OF PROPERTY YARD

1/13/08  
D. Shortman  
S. Wilson (CDM)

AD NO.:

AD-200720

Field Personnel:

MU, NS

Date:

6/18/07

Time:

USE AREA (circle)⇒

Specific Use Areas

Common Use Areas

Limited Use Areas

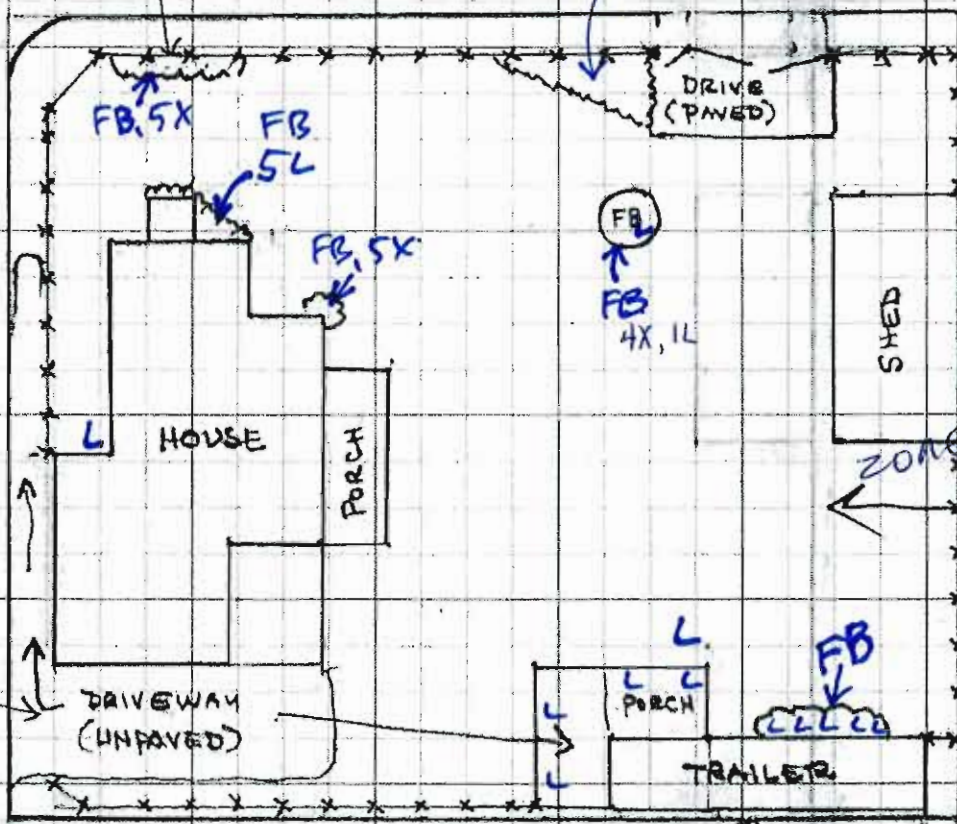
Non-use Areas

Interior surface  
zone of bare soil

Zone ① UA-200788  
TT 01570

19X, 11L

FB  
5X, Mostly concrete



UA-200789  
TT 01571

30X

Zone ④ 28X, 2L  
UA-200791  
TT 01573  
lawn

Zone ③ UA-200790  
TT 01572

under Deck House & Trailer

1X, 4L

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total Pls
TTEMI	AD-200407	UA-200782	Yard (front, back, side)	Common Use Areas	53,800	30	0	0	0	30
CDM	AD-200407					30	0	0	0	30
TTEMI	AD-200407	UA-200783	Water Utility Aggregate/Soil	Specific Use Areas	500	1	0	0	0	1
CDM	AD-200407					1	0	0	0	1
TTEMI	AD-200407	UA-200784	Driveway (unpaved)	Specific Use Areas	2,500	30	0	0	0	30
CDM	AD-200407					30	0	0	0	30
TTEMI	AD-200407	UA-200785	Flowerbed	Specific Use Areas	800	27	0	1	2	30
CDM	AD-200407					25	5	0	0	30
TTEMI	AD-200407	UA-200786	Underneath porches or decks	Limited Use Areas	350	10	0	0	0	10
CDM	AD-200407					8	2	0	0	10
TTEMI	AD-200407	UA-200787	Wooded lot or managed	Non-use Areas	N/A	0	0	0	0	0
CDM	AD-200407					0	0	0	0	0

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101080</u>	Page No.: <u>14</u>	Site Visit Date: <u>11/3/2008</u>	AD Number: <u>200407</u>
Address: <u>Grant Ave</u>	Structure Description: <u>Property</u>		
Occupant: <u>Winslow</u>	Phone No.: _____		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>Same</u>		
Investigation Team: <u>S. Wilson, D. Shortman</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-200782	Zone 2 UA-200783	Zone 3 UA-200784	Zone 4 UA-200785	Zone 5 UA-200786			
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	SUA	SUA	SUA	LUA			
<b>Description</b>		YARD	WATER UTILITY	DRIVEWAY	FLOWERBED	DECK			
<b>Area Size</b> (square feet)		53800	500	2500	800	350			
<b>General Comment</b> (Cover, etc.)		GRASS	GRASS	STRUCTURAL FILL	TOPSOIL	COMMON FILL			
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	1	30	25	8			
	<b>L</b>				5	2			
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	1	30	30	10			

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Winslow - Grant Ave

11/3/08

Page 1

FIELD DIAGRAM OF PROPERTY YARD

D. Shortman  
S. Wilson (CDM)

AD NO.: 200407	Field Personnel: NS/ML/CM/JC
Date: 6-18-07	Time:

USE AREA (circle) ⇒ Specific Use Areas Common Use Areas Limited Use Areas Non-use Areas Interior surface zone of bare soil

SCALE  
1" = 30'

NORTH

VACANT LOT

RIGHT OF WAY

Zone 2 1X  
SUA - WATER PROJECT FILL  
**UA-200783**  
TT-01387 & TT-01388

414 GRANT

Zone 1  
CUA - LAWNS  
**UA-200782**  
TT-01386  
30X

DRIVE

412 GRANT

GRANT AVE

25X, 52

Zone 4  
SUA - FLOWER BEDS (All)  
**UA-200785**  
TT-01390

410 GRANT

DRIVE

Winslow-Grant Ave

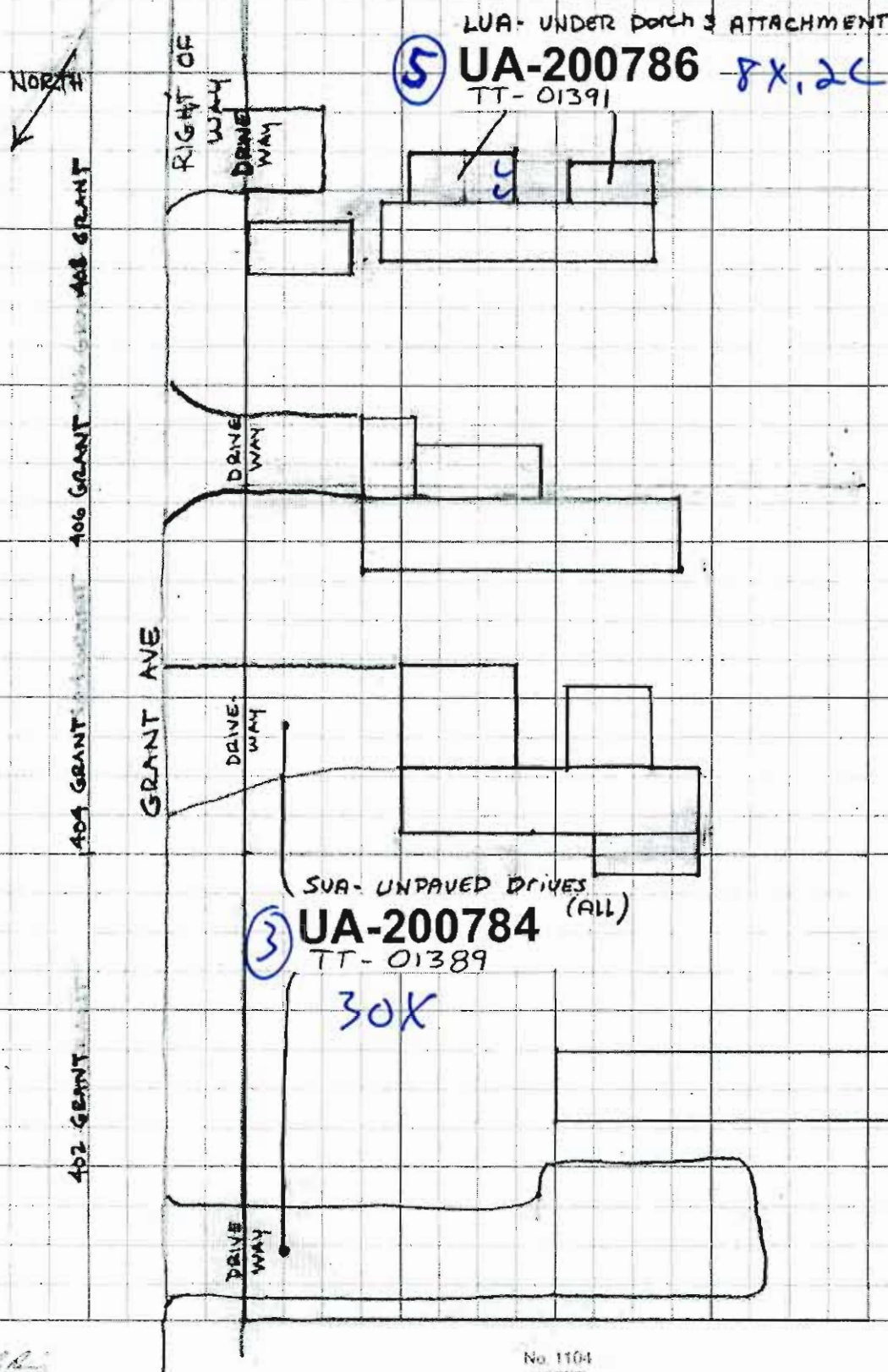
11/3/08

D. Shortman Pg 2

FIELD DIAGRAM OF PROPERTY YARD S. Wilson (CDM)

AD NO.: 200407	Field Personnel: NS/M4/CM/JC
Date: 6-18-07	Time:

USE AREA (circle) → Specific Use Areas Common Use Areas Limited Use Areas Non-use Areas Interior surface zone of bare soil  
SCALE 1" = 30'





Wmslow - Grant Ave

11/3/08 D. Shortman Pg 3  
EXTERIOR S. Wilson (CDM)

FIELD DIAGRAM OF ~~PROPERTY~~ PROPERTY

AD No: **AD-200407**

Field Personnel:  
NS/MU/CM/JC

~~SD No:~~

~~TF No:~~

Date: **6-18-07**

Time:

HOUSE LEVEL

First

Second

Third

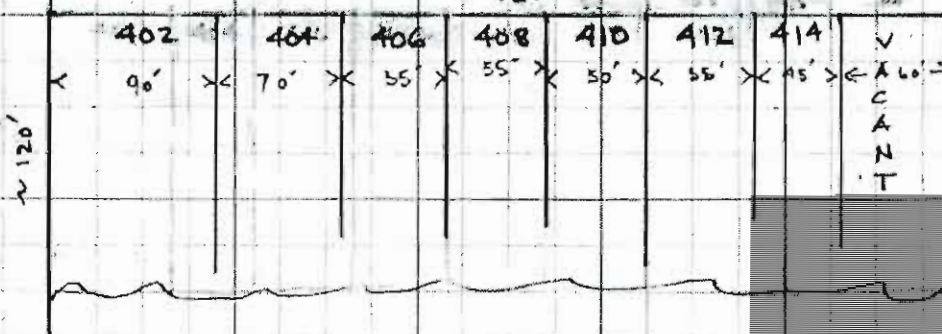
Basement

(circle) →

SCALE 1"=100'

NORTH

GRANT AVE  
~ 480'



NON USE AREA

**UA-200787**

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200087	UA-200457	Yard (front, back, side)	Common Use Areas	14,000	30	0	0	0	30
CDM	AD-200087					30	0	0	0	30
TTEMI	AD-200087	UA-200458	Yard (front, back, side)	Common Use Areas	15,000	30	0	0	0	30
CDM	AD-200087					30	0	0	0	30
TTEMI	AD-200087	UA-200459	Garden	Specific Use Areas	800	30	0	0	0	30
CDM	AD-200087					30	0	0	0	30
TTEMI	AD-200087	UA-200460	Overgrown areas	Limited Use Areas	250	30	0	0	0	30
CDM	AD-200087					30	0	0	0	30
TTEMI	AD-200087	UA-200461	Driveway (unpaved)	Specific Use Areas	12,000	30	0	0	0	30
CDM	AD-200087					30	0	0	0	30
TTEMI	AD-200087	UA-200462	Animal pen	Specific Use Areas	400	30	0	0	0	30
CDM	AD-200087					27	3	0	0	30
TTEMI	AD-200087	UA-200463	Flowerbed	Specific Use Areas	30	30	0	0	0	30
CDM	AD-200087					28	2	0	0	30
TTEMI	AD-200087	UA-200464	Flower pot	Specific Use Areas	20	0	30	0	0	30
CDM	AD-200087					0	30	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101080 Page No.: 15 Site Visit Date: 11/4/2008 AD Number: 200087  
 Address: 3320 Highway 2 W Structure Description: Property  
 Occupant: West Phone No.: \_\_\_\_\_  
 Owner (If different than occupant): Same Phone No.: Same  
 Investigation Team: S. Wilson, D. Shortman Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 1 UA-200457	Zone 2 UA-200458	Zone 3 UA-200459	Zone 4 UA-200460	Zone 5 UA-200461	Zone 6 UA-200462	Zone 7 UA-200463	Zone 8 UA-200464
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	CUA	SUA	LUA	SUA	SUA	SUA	SUA
<b>Description</b>		YARD	YARD	GARDEN	YARD	DRIVEWAY	ANIMAL PEN	FLOWERBED	FLOWERPOT
<b>Area Size</b> (square feet)		14000	15000	800	250	12000	400	30	20
<b>General Comment</b> (Cover, etc.)		GRASS	GRASS	TOPSOIL	TALL GRASS	STRUCTURAL FILL	COMMON FILL	TOPSOIL	POTTING SOIL
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	30	30	30	30	27	28	
	<b>L</b>						3	2	30
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	30	30	30	30	30	30

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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West-3320 Highway 2W

FIELD DIAGRAM OF PROPERTY YARD

11/4/08  
D. S. Gortman  
S. Wilson (CDM)

AD NO.:

**AD-200087**

Field Personnel:

THPE TEAM H-1  
MTS, MJD, JPA etc

Date:

6/7/07

Time:

USE AREA (circle) →

Specific Use Areas

Common Use Areas

Limited Use Areas

Non-use Areas

Interior surface zone of bare soil

Zone ② Yard 2 30X

**UA-200458**

**TT-01089**

Flower bed

**UA-200464**

**TT-01101**

30L

Zone ⑤ Driveway 30X

**UA-200461**

**TT-01092**

Flower bed 28X, 2L

Flower bed 10X

UNPAVED DRIVEWAY  
YARD 1 (SUA)

PRIMARY RESIDENCE

SHED  
Cool

YARD 2

Zone ⑥ **UA-200462**  
**TT-01093**  
28X, 3L

FENCED CHICKEN YARD (SUA)

BARN

PRIMARY RESIDENCE

TRUCK ADD-ON

OVERGROWN AREA (LUA)

Zone ④ Overgrown Area  
**UA-200460**

**TT-01091**

30X

Zone ① Yard 1 30X

**UA-200457**

**TT-01088**

YARD 1 (CVA)

YARD 1 (CVA)

GARDEN (SUA)

Garden 30X  
**UA-200459**

Zone ③ **TT-01090**

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200314	UA-200792	Flowerbed	Specific Use Areas	800	26	4	0	0	30
CDM	AD-200314					27	3	0	0	30
TTEMI	AD-200314	UA-200793	Garden	Specific Use Areas	250	10	0	0	0	10
CDM	AD-200314					8	2	0	0	10
TTEMI	AD-200314	UA-200794	Driveway (unpaved)	Specific Use Areas	10,000	30	0	0	0	30
CDM	AD-200314					30	0	0	0	30
TTEMI	AD-200314	UA-200795	Yard (front, back, side)	Common Use Areas	104,000	30	0	0	0	30
CDM	AD-200314					30	0	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101080

Page No.: 16

Site Visit Date: 11/4/2008

AD Number: 200314

Address: US Highway 2 W

Structure Description: Property

Occupant: Sanders

Phone No.:

Owner (If different than occupant): Same

Phone No.: Same

Investigation Team: S. Wilson, D. Shortman

Investigation Name: Troy Vermiculite Reinspection

Field Form Check Completed by (100% of Forms): N. Bein

Visual Verification by Field Team Leader (10% of forms):

		Zone 1 UA-200792	Zone 2 UA-200793	Zone 3 UA-200794	Zone 4 UA-200795				
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA	SUA	SUA	CUA				
<b>Description</b>		FLOWERBED	GARDEN	DRIVEWAY	YARD				
<b>Area Size</b> (square feet)		800	250	10000	104000				
<b>General Comment</b> (Cover, etc.)		TOPSOIL w/ LINER	TOPSOIL	STRUCTURAL FILL	GRASS				
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	27	8	30	30				
	<b>L</b>	3	2						
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	10	30	30				

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Sanders-US Highway 2 W

11/4/08 CDM

D. Shortman S. Wilson

# FIELD DIAGRAM OF PROPERTY YARD

AD NO.: <b>AD-200314</b>	Field Personnel: mu. 3 NS
Date: 6.19.07	Time:

USE AREA (circle)⇒

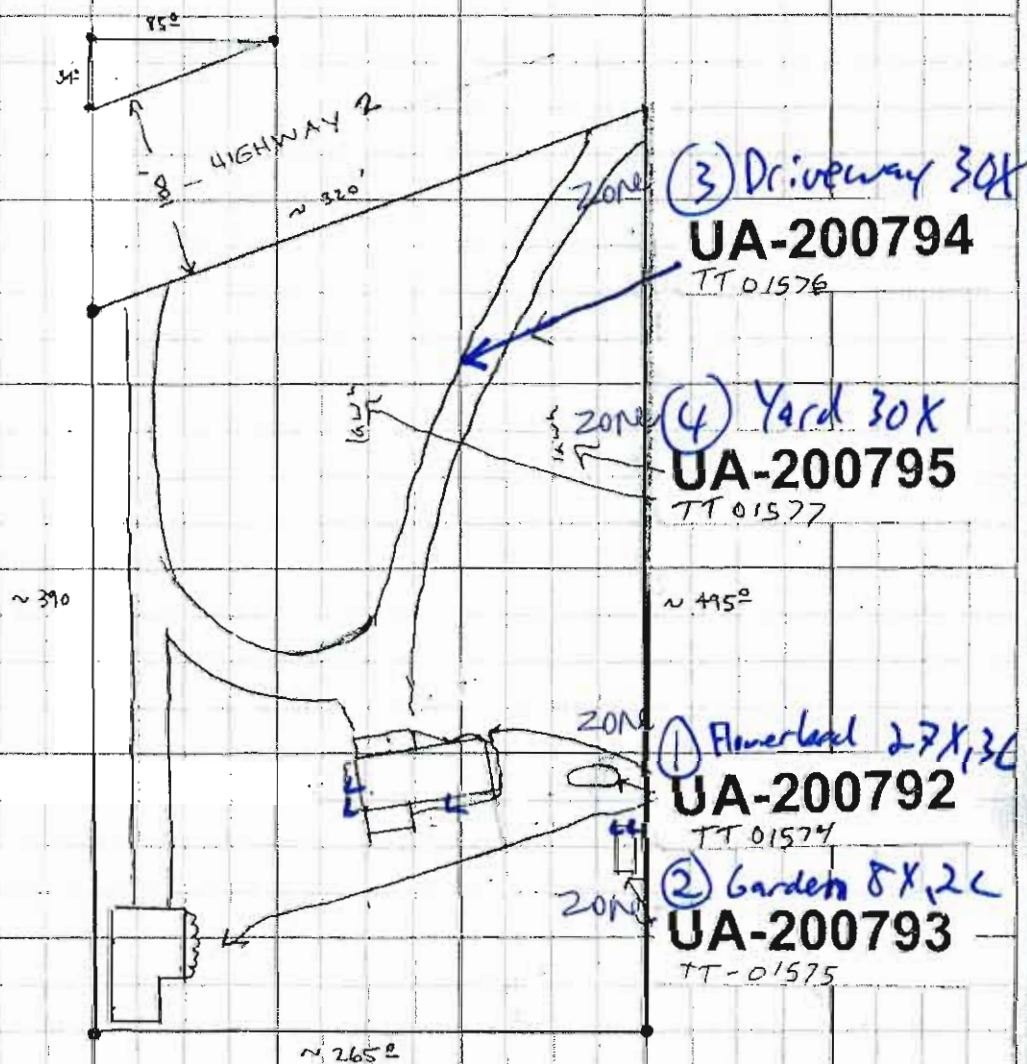
Specific Use Areas

Common Use Areas

Limited Use Areas

Non-use Areas

Interior surface zone of bare soil



# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200611	UA-200389	Garden	Specific Use Areas	935	30	0	0	0	30
CDM	AD-200611					30	0	0	0	30
TTEMI	AD-200611	UA-200390	Yard (front, back, side)	Common Use Areas	1,745	30	0	0	0	30
CDM	AD-200611					30	0	0	0	30
TTEMI	AD-200611	UA-200391	Yard (front, back, side)	Common Use Areas	4,875	30	0	0	0	30
CDM	AD-200611					30	0	0	0	30
TTEMI	AD-200611	UA-200392	Flowerbed	Specific Use Areas	100	28	0	2	0	30
CDM	AD-200611					20	10	0	0	30
TTEMI	AD-200611	UA-200393	Flowerbed	Specific Use Areas	200	30	0	0	0	30
CDM	AD-200611					30	0	0	0	30
TTEMI	AD-200611	UA-200394	Driveway (unpaved)	Specific Use Areas	400	30	0	0	0	30
CDM	AD-200611					30	0	0	0	30
TTEMI	AD-200611	UA-200395	Water Utility Aggregate/Soil	Specific Use Areas	360	30	0	0	0	30
CDM	AD-200611					30	0	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101080 Page No.: 17 Site Visit Date: 11/4/2008 AD Number: 200611  
 Address: 229 E Kalispell Ave Structure Description: Property  
 Occupant: Hicks Phone No.: \_\_\_\_\_  
 Owner (If different than occupant): Same Phone No.: Same  
 Investigation Team: S. Wilson, D. Shortman Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 1 UA-200389	Zone 2 UA-200390	Zone 3 UA-200391	Zone 4 UA-200392	Zone 5 UA-200393	Zone 6 UA-200394	Zone 7 UA-200395	
<b>Type</b> (SUA/CUA/LUA/ISA)		SUA	CUA	CUA	SUA	SUA	SUA	SUA	
<b>Description</b>		GARDEN	YARD	YARD	FLOWERBED	FLOWERBED	DRIVEWAY	WATER UTILITY	
<b>Area Size</b> (square feet)		935	1745	4875	100	200	400	360	
<b>General Comment</b> (Cover, etc.)		TOPSOIL	GRASS	GRASS	TOPSOIL	TOPSOIL	STRUCTURAL FILL	STRUCTURAL FILL	
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	30	30	20	30	30	30	
	<b>L</b>				10				
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	30	30	30	30	30	

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Hicks- 229 E Kalispell Ave

11/4/08

D. Shortman S. Wilson (CDM)

# FIELD DIAGRAM OF PROPERTY YARD

AD NO.:

**AD-200611**

Field Personnel:

MJD, NWS

Date: 5.17.07

Time:

USE AREA (circle) →

Specific Use Areas

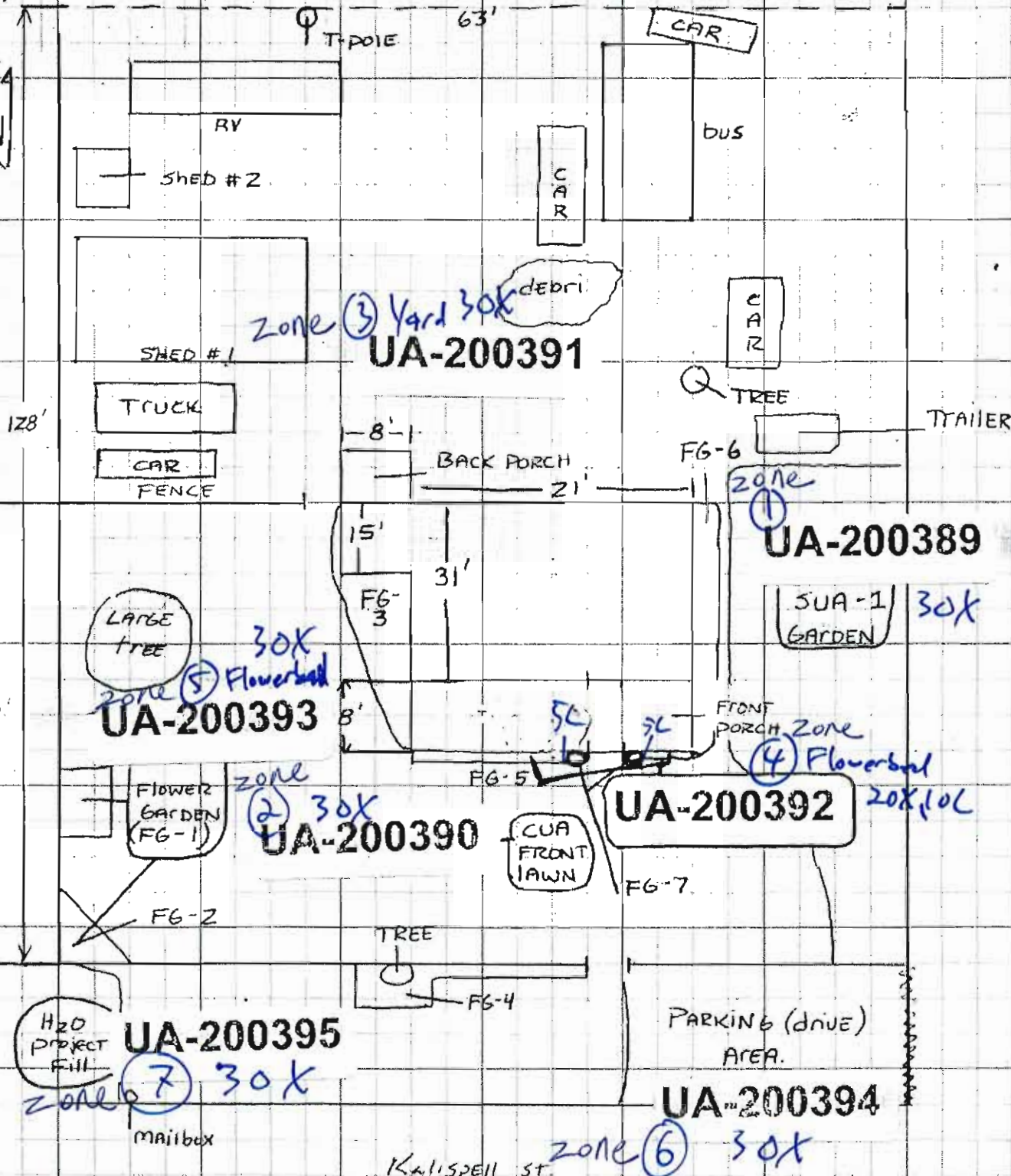
Common Use Areas

Limited Use Areas

Non-use Areas

Interior surface zone of bare soil

ALLEY



# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200852	UA-201147	Driveway (unpaved)	Specific Use Areas	1,600	30	0	0	0	30
CDM	AD-200852					30	0	0	0	30
TTEMI	AD-200852	UA-201148	Yard (front, back, side)	Common Use Areas	50,400	30	0	0	0	30
CDM	AD-200852					30	0	0	0	30
TTEMI	AD-200852	UA-201149	Former garden	Common Use Areas	1,000	4	20	4	2	30
CDM	AD-200852					26	4	0	0	30
TTEMI	AD-200852	UA-201150	Garden	Specific Use Areas	3,000	30	0	0	0	30
CDM	AD-200852					30	0	0	0	30
TTEMI	AD-200852	UA-201151	Wooded lot or managed	Non-use Areas	N/A	0	0	0	0	0
CDM	AD-200852					0	0	0	0	0
TTEMI	AD-200852	UA-201152	Pasture or field	Limited Use Areas	50,000	30	0	0	0	30
CDM	AD-200852					30	0	0	0	30
TTEMI	AD-200852	UA-201153	Flowerbed	Specific Use Areas	1,000	30	0	0	0	30
CDM	AD-200852					29	1	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101080</u>	Page No.: <u>18</u>	Site Visit Date: <u>11/4/2008</u>	AD Number: <u>200852</u>
Address: <u>819 Freeman Ridge Rd</u>	Structure Description: <u>Property</u>		
Occupant: <u>Sonntag</u>	Phone No.: _____		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>Same</u>		
Investigation Team: <u>S. Wilson, D. Shortman</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-201147	Zone 2 UA-201148	Zone 3 UA-201149	Zone 4 UA-201150	Zone 5 UA-201152	Zone 6 UA-201153		
Type (SUA/CUA/LUA/ISA)		SUA	CUA	CUA	SUA	LUA	SUA		
Description		DRIVEWAY	YARD	FORMER GARDEN	GARDEN	FIELD	FLOWERBED		
Area Size (square feet)		1600	50400	1000	3000	50000	1000		
General Comment (Cover, etc.)		STRUCTURAL FILL	GRASS	GRASS	TOPSOIL	TALL GRASS	TOPSOIL w/ LINER		
Pls (X=None, L=Low, M=Intermediate, H=High)	X	30	30	26	30	30	29		
	L			4			1		
	M								
	H								
Total		30	30	30	30	30	30		

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Sonntag - 819 Freeman Ridge Rd

#2

11/4/08

D. Shortman

S. Wilson

(CDM)

FIELD DIAGRAM OF PROPERTY YARD

AD NO.:

AD-200852

Field Personnel:

MU, CM, NS, KS

Date: JULY 16 2007

Time:

USE AREA (circle)⇒

Specific Use Areas

Common Use Areas

Limited Use Areas

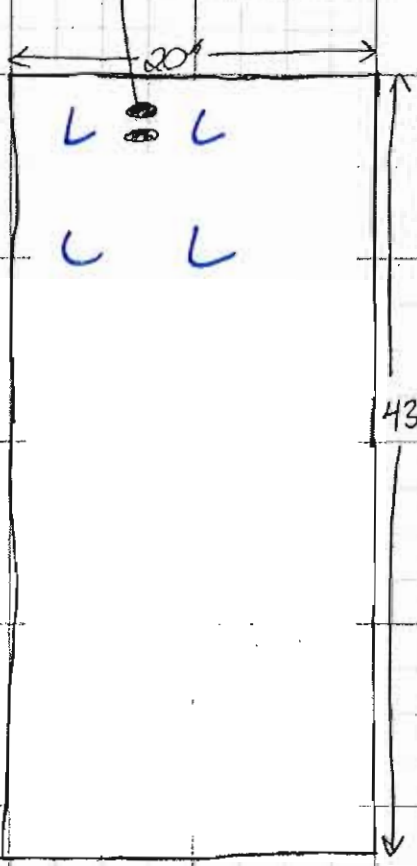
Non-use Areas

Interior surface zone of bare soil

ROCKS AS MARKERS PLACED BY OWNER

1" = 10'

N



③

FORMER GARDEN

UA-201149

26X, 4L



# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200416	UA-200360	Yard (front, back, side)	Common Use Areas	2,400	0	1	0	0	1
CDM	AD-200416					5	0	0	0	5
TTEMI	AD-200416	UA-200362	Flowerbed	Specific Use Areas	15	0	1	0	0	1
CDM	AD-200416					5	0	0	0	5
TTEMI	AD-200416	UA-200363	Wooded lot or managed	Non-use Areas	440	1	0	0	0	1
CDM	AD-200416					5	0	0	0	5
TTEMI	AD-200416	UA-200364	Yard (front, back, side)	Common Use Areas	2,400	30	0	0	0	30
CDM	AD-200416					30	0	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101080 Page No.: 19 Site Visit Date: 11/5/2008 AD Number: 200416  
 Address: 510 Grant Ave Structure Description: Property  
 Occupant: Chapel Phone No.: \_\_\_\_\_  
 Owner (If different than occupant): Same Phone No.: Same  
 Investigation Team: S. Wilson, D. Shortman Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein Visual Verification by Field Team Leader (10% of forms): N. Bein

		Zone 1 UA-200360	Zone 2 UA-200362	Zone 3 UA-200363	Zone 4 UA-200364				
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	SUA	NUA	CUA				
<b>Description</b>		YARD	FLOWERBED	YARD	YARD				
<b>Area Size</b> (square feet)		2400	15	440	2400				
<b>General Comment</b> (Cover, etc.)		GRASS	TOPSOIL	TALL GRASS	GRASS				
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	5	5	5	30				
	<b>L</b>								
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		5	5	5	30				

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Chapel - 510 Grant Ave

11/5/08

D. Shortman  
S. Wilson (COM)

FIELD DIAGRAM OF PROPERTY YARD

AD NO.: 200416/TR0001	Field Personnel: JS DB
Date: 5/4/07	Time: 1208

USE AREA (circle) →

Specific Use Areas

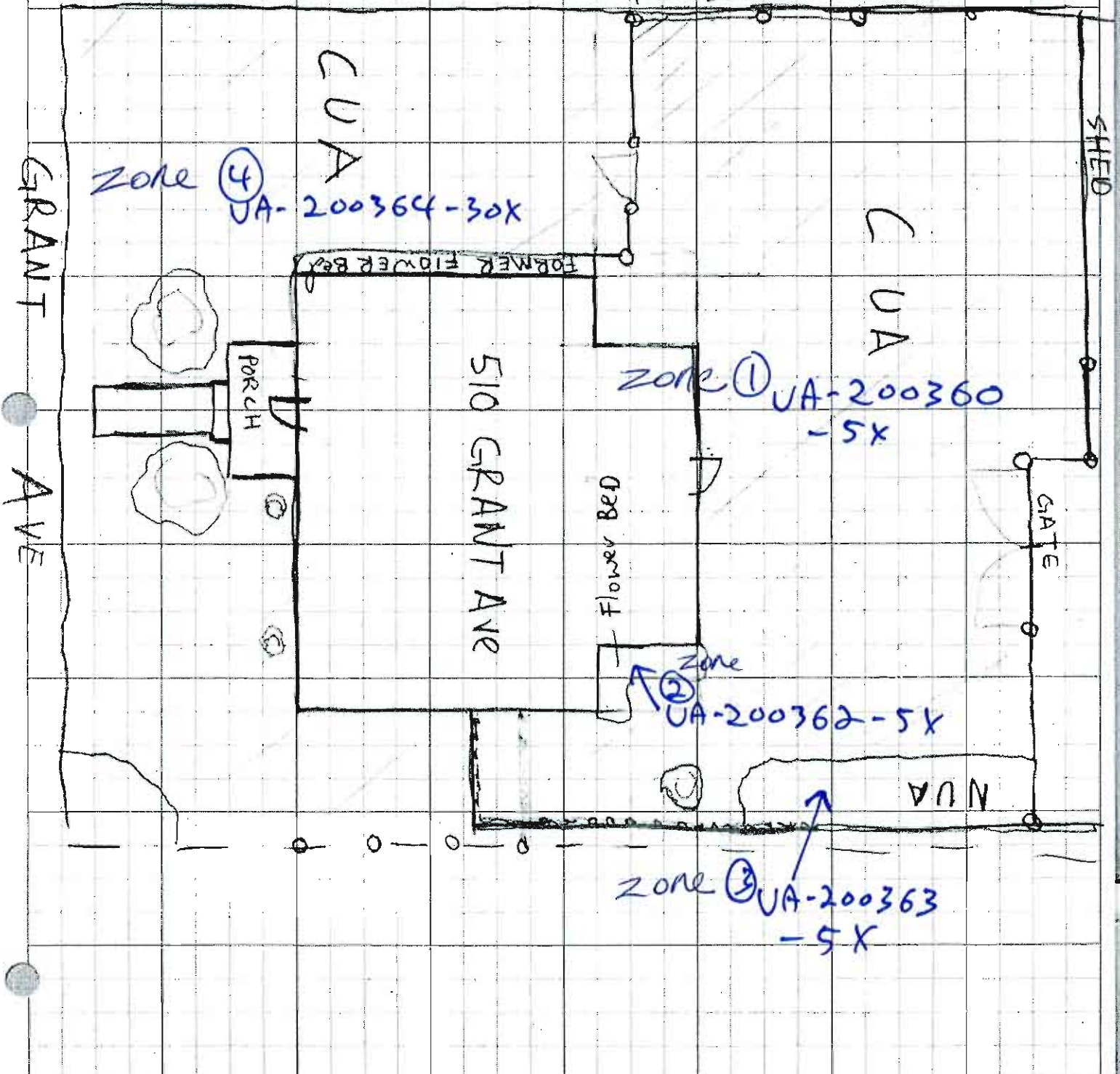
Common Use Areas

Limited Use Areas

Non-use Areas

Interior surface zone of bare soil

General



# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-201040	UA-202071	Yard (front, back, side)	Common Use Areas	34,000	29	0	0	1	30
CDM	AD-201040					30	0	0	0	30
TTEMI	AD-201040	UA-202072	Driveway (unpaved)	Specific Use Areas	16,800	30	0	0	0	30
CDM	AD-201040					30	0	0	0	30
TTEMI	AD-201040	UA-202073	Flowerbed	Specific Use Areas	350	30	0	0	0	30
CDM	AD-201040					23	7	0	0	30
TTEMI	AD-201040	UA-202074	Flower pot	Specific Use Areas	15	23	0	0	0	23
CDM	AD-201040					22	3	0	0	25
TTEMI	AD-201040	UA-202075	Wooded lot or managed	Non-use Areas	N/A	0	0	0	0	0
CDM	AD-201040					0	0	0	0	0

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101080 Page No.: 20 Site Visit Date: 11/5/2008 AD Number: 201040  
 Address: 167 Log Cabin Rd Structure Description: Property  
 Occupant: Fagg Phone No.: \_\_\_\_\_  
 Owner (If different than occupant): Same Phone No.: Same  
 Investigation Team: S. Wilson, D. Shortman Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein Visual Verification by Field Team Leader (10% of forms): N. Bein

		Zone 1 UA-202071	Zone 2 UA-202072	Zone 3 UA-202073	Zone 4 UA-202074				
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	SUA	SUA	SUA				
<b>Description</b>		YARD	DRIVEWAY	FLOWERBED	FLOWERPOT				
<b>Area Size</b> (square feet)		34000	16800	350	15				
<b>General Comment</b> (Cover, etc.)		GRASS	STRUCTURAL FILL	TOPSOIL	POTTING SOIL				
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	30	23	22				
	<b>L</b>			7	3				
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	30	25				

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Fagg - 167 Log Cabin Rd

11/5/08

D. Shortman  
S. Wilson (COM)

TROY ASBESTOS PROPERTY EVALUATION  
FIELD DIAGRAM OF PROPERTY YARD

AD-201040	Field Personnel DE, CM, MV, JL DB	Date 20 AUGUST 2007
-----------	---	---------------------------

N ↑

HOUSE - 2800 SQ. FT.

SHED = 96' SQ. FT.

DRIVEWAY 16,800 SQ. FT.

YARD = 34,000 SQ. FT.

NON-USE 126,300 SQ. FT.

2 FLOWER BEDS 7L

Zone ④ 22X, 3L  
9-FLOWER POTS 3L

UA-202074

NON-USE

NON-USE

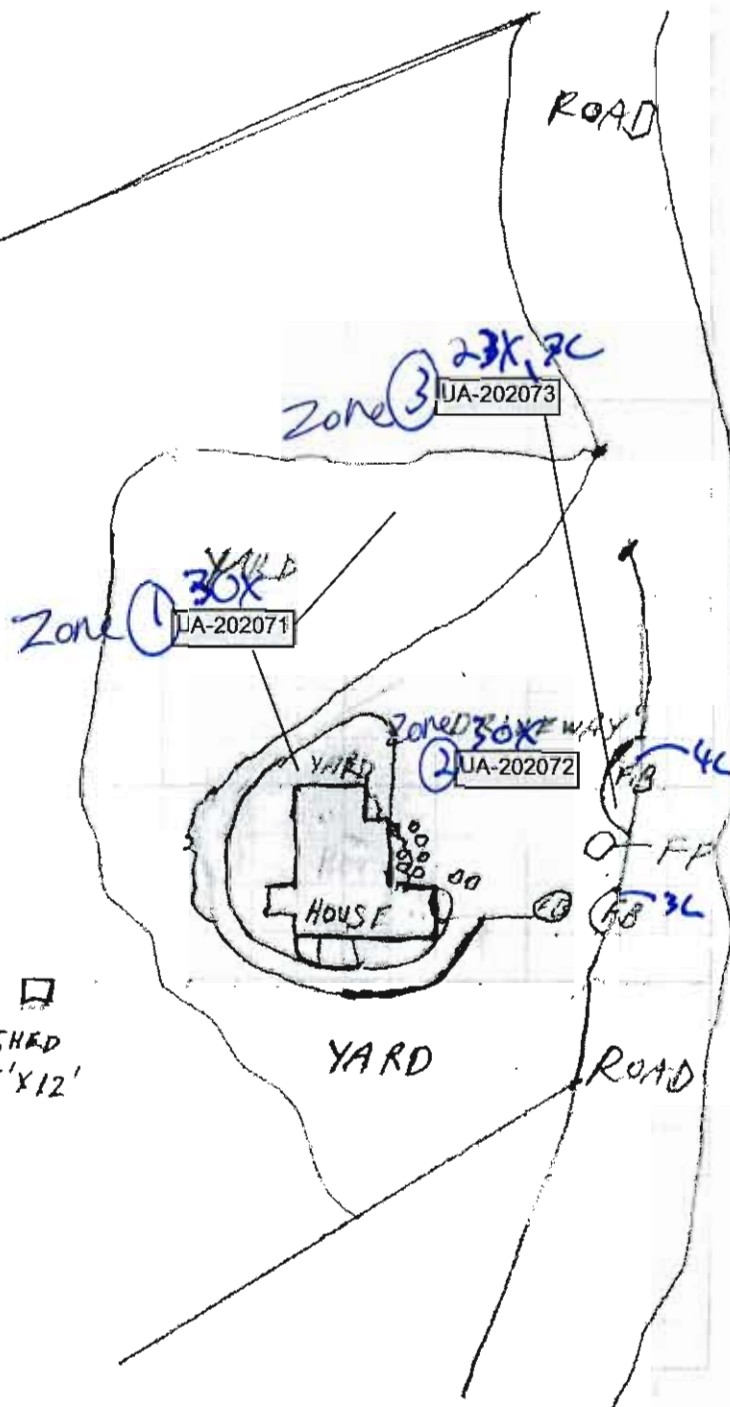
UA-202075

SHED  
8'X12'

1 SQUARE = 20 SQ. FT.



Tetra Tech Em Inc.



# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200594	UA-200180	Yard (front, back, side)	Common Use Areas	1,982	30	0	0	0	30
CDM	AD-200594					30	0	0	0	30
TTEMI	AD-200594	UA-200181	Yard (front, back, side)	Common Use Areas	5,500	30	0	0	0	30
CDM	AD-200594					30	0	0	0	30
TTEMI	AD-200594	UA-200182	Yard (front, back, side)	Common Use Areas	5,650	30	0	0	0	30
CDM	AD-200594					30	0	0	0	30
TTEMI	AD-200594	UA-200183	Driveway (unpaved)	Specific Use Areas	600	30	0	0	0	30
CDM	AD-200594					29	1	0	0	30
TTEMI	AD-200594	UA-200184	Flowerbed	Specific Use Areas	70	26	4	0	0	30
CDM	AD-200594					26	4	0	0	30
TTEMI	AD-200594	UA-200185	Driveway (unpaved)	Specific Use Areas	1,680	30	0	0	0	30
CDM	AD-200594					30	0	0	0	30

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: <u>101080</u>	Page No.: <u>21</u>	Site Visit Date: <u>11/5/2008</u>	AD Number: <u>200594</u>
Address: <u>Spokane Ave</u>	Structure Description: <u>Property</u>		
Occupant: <u>Rice</u>	Phone No.: _____		
Owner (If different than occupant): <u>Same</u>	Phone No.: <u>Same</u>		
Investigation Team: <u>S. Wilson, D. Shortman</u>	Investigation Name: <u>Troy Vermiculite Reinspection</u>		
Field Form Check Completed by (100% of Forms): <u>N. Bein</u>	Visual Verification by Field Team Leader (10% of forms): _____		

		Zone 1 UA-200180	Zone 2 UA-200181	Zone 3 UA-200182	Zone 4 UA-200183	Zone 5 UA-200184	Zone 6 UA-200185		
Type (SUA/CUA/LUA/ISA)		CUA	CUA	CUA	SUA	SUA	SUA		
Description		YARD	YARD	YARD	DRIVEWAY	FLOWERBED	DRIVEWAY		
Area Size (square feet)		1982	5500	5650	600	70	1680		
General Comment (Cover, etc.)		GRASS	GRASS	GRASS	STRUCTURAL FILL	TOPSOIL	STRUCTURAL FILL		
Pls (X=None, L=Low, M=Intermediate, H=High)	X	30	30	30	29	26	30		
	L				1	4			
	M								
	H								
Total		30	30	30	30	30	30		

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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Rice-Spokane Ave

AD-200594

AD-200594

11/5/08

D. S. Wilson (CDM)  
S. Wilson

AD NO.:

AD-200595

Field Personnel:

SE / JHR

Date:

5/31/07

Time:

USE AREA (circle) →

Specific Use Areas

Common Use Areas

Limited Use Areas

Non-use Areas

Interior surface zone of bare soil

TT-00697

DUPLICATE SOIL - UA-200182

AD-200594

AD-200595

DRIVEWAY (SUA) 1,680 SF

BACK YARD (CUA) 5,500 SF

UA-200185

TT-00696

30X

UA-200181

TT-00692

30X

GRASS

DECK

SHER 8x8

SIDE YARD (CUA) 5,450 SF

GARAGE

UA-200182

TT-00695

30X

HOUSE

DRIVE GRAVEL

GRASS

FLOWER BEDS / POTS (SUA) 70 SF

FRONT LAWN (CUA) 1,982 SF

DRIVEWAY (SUA) 600 SF

UA-200184

TT-00694

26X, 4L

UA-200180

TT-00691

30X

UA-200183

TT-00693

29X, 1L

# Visual Vermiculite Summary by Use Area

Company	PropertyID	LocationID	Location Description	Zone	Sq. Ft.	# PI None	# PI Low	# PI Intmed.	# PI High	Total PIs
TTEMI	AD-200865	UA-200913	Yard (front, back, side)	Common Use Areas	3,000	30	0	0	0	30
CDM	AD-200865					30	0	0	0	30
TTEMI	AD-200865	UA-200914	Flowerbed	Specific Use Areas	500	29	0	1	0	30
CDM	AD-200865					26	4	0	0	30
TTEMI	AD-200865	UA-200915	Parking lot (unpaved)	Specific Use Areas	1,650	30	0	0	0	30
CDM	AD-200865					30	0	0	0	30
TTEMI	AD-200865	UA-200916	Defined play area	Specific Use Areas	10	4	0	0	0	4
CDM	AD-200865					5	0	0	0	5
TTEMI	AD-200865	UA-200917	Garden	Specific Use Areas	675	30	0	0	0	30
CDM	AD-200865					30	0	0	0	30
TTEMI	AD-200865	UA-200918	Wooded lot or managed	Non-use Areas	N/A	0	0	0	0	0
CDM	AD-200865					0	0	0	0	0

PI- Point Inspection

Sq. Ft.- Square Footage

PropertyID, LocationID, and square footages provided by TTEMI

**LIBBY SUPERFUND SITE**  
**Visual Vermiculite Estimation Form (VVEF)**

Field Logbook No.: 101080 Page No.: 22 Site Visit Date: 11/5/2008 AD Number: 200865  
 Address: South Side Rd Structure Description: Property  
 Occupant: McCully Phone No.: \_\_\_\_\_  
 Owner (If different than occupant): Same Phone No.: Same  
 Investigation Team: S. Wilson, D. Shortman Investigation Name: Troy Vermiculite Reinspection  
 Field Form Check Completed by (100% of Forms): N. Bein Visual Verification by Field Team Leader (10% of forms): \_\_\_\_\_

		Zone 1 UA-200913	Zone 2 UA-200914	Zone 3 UA-200915	Zone 4 UA-200916	Zone 5 UA-200917			
<b>Type</b> (SUA/CUA/LUA/ISA)		CUA	SUA	SUA	SUA	SUA			
<b>Description</b>		YARD	FLOWERBED	PARKING LOT	PLAY AREA	GARDEN			
<b>Area Size</b> (square feet)		3000	500	1650	10	675			
<b>General Comment</b> (Cover, etc.)		GRASS	TOPSOIL	STRUCTURAL FILL	GRASS	TOPSOIL			
<b>Pls</b> (X=None, L=Low, M=Intermediate, H=High)	<b>X</b>	30	26	30	5	30			
	<b>L</b>		4						
	<b>M</b>								
	<b>H</b>								
<b>Total</b>		30	30	30	5	30			

Areas previously identified for removal not inspected for visible vermiculite?

No

Location(s):

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McCully-South Side Rd

11/5/08

D. Shortman  
S. Wilson (CDH)

FIELD DIAGRAM OF PROPERTY YARD

AD NO.:

**AD-200865**

Field Personnel:

JL, KS, MU

Date:

July 9, 2007

Time:

USE AREA (circle) →

Specific Use Areas

Common Use Areas

Limited Use Areas

Non-use Areas

Interior surface zone of bare soil

Zone ④ Play Area 5X  
**UA-200916**  
**TT-02005**

Zone ② Flowerbed 26x46  
**UA-200914**  
**TT-02003**

**UA-200918**

MIXED: UN-USED FOREST  
& PASTURES

Zone ⑤ Garden 30X  
**UA-200917**  
**TT-02006**

UNMAINTAINED PASTURE

Zone ③ Parking 30X  
**UA-200915**  
**TT-02004**

Zone ① Yard 30X  
**UA-200913**  
**TT-02002**

LAWN

← SOUTHSIDE RD →

101031



*"Rite in the Rain"*  
ALL-WEATHER  
TRANSIT

LIBBY ASBESTOS PROJECT

Miscellaneous Investigations

7-15-08 to 9-17-08



Libby Asbestos Project

CDM Contractor Logbook

Return to:

Paul Lammers  
60 Port Blvd., Suite 201  
Libby, MT 59923  
406-293-8595

Every Page:

- Logbook number, initial and date every page, sign and date last entry of the day. Line out once, initial and date all changes. NO blank lines.

Daily Entries

- Author, date & time, weather, activities, persons on team, level of PPE, title of governing document.

Project \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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5	AD-200184, owner: Higgins	7-15-08
6	AD-200133, owner: Harving	7-15-08
7	AD-200689, owner: Vogel	7-16-08
8	AD-201095, owner: Dupert	7-16-08
9	AD-200614, owner: Welch	7-16-08
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11	Jay Effar Rd Crossing - BNSF	7-21-08
14	Jay Effar Rd crossing - BNSF	7-22-08
21	Jay Effar Rd crossing - BNSF	7-23-08
25	Cedar Creek crossing - BNSF	7-29-08
30	553 (formerly 648) Forest Dr - AD-200035, owner: Mason	8-26-08
31	250 Estate Dr AD-200268 owner: Mason	8-26-08
32	651 (formerly 617) Waterfront Rd, AD-200120, owner: Bofen	8-26-08
33	506 Grant Ave, A & B, AD-200415, owner: Keenan	8-26-08
34	209 Mineral Ave, AD-200572, owner: Welch	8-27-08
35	2575 Bull Lake Rd, AD-202006, owner: Jenkins	8-27-08
36	208 Missoula Ave, AD-200578, owner: Taylor	8-27-08
37	615 Waterfront Rd, AD-200118, owner: Brown	8-27-08
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47-48	Voided	

~~Volpe/Libb~~

## Abbreviations:

TAPE - Tmy Asbestos Property Evaluation

PDIMP - Pre-design Inspection Work Plan

PPE - Personal Protection Equipment

H/O - Home Owner

VVEF - Visual Vermiculite Estimation Form

VCS - Vermiculite Containing Soil

VI - Visual Inspection

RR - Railroad

LPM - liters per minute

ARD - asbestos related disease

VV - visible vermiculite

ACM - asbestos containing materials

ABS - activity based sampling

SAP - sampling &amp; analysis plan

IDW - investigation derived waste

MP - mile post

11-10-08  
D. Phillips  
Haugen

Volpe/Libby Asbestos Project Logbook 101031  
553 Forest Drive (formerly 648 Forest Drive) AD-200035

Owner: Mason 8-26-08. Governing Document: TAPE.

Feb. 2008, PDWP Nov. 2003. Weather 55°F, cloudy. Visual  
Inspection Team: D. Shofman & S. Wilson (COM) Author: S. Wilson,  
PPE level D. Activities: Visual inspection for VCS

0800 onsite with N. Bein (COM). No H/O at either trailer 1 or 2.

Conducted site walkthrough.

0843 H/O's dog tips over flowerpot by trailer 2.

0850 N. Bein offsite

0915 spoke with resident of trailer 1, told her about dog tipping over  
pot. She said it had happened in the past. Visible VCS in the  
pot soil, now dispersed on yard. VCS not cleared up by inspection team.

Notes: 30 points taken at each area, except 15 taken at flowerpots,  
because there were so few. The team-to was not sampled representative  
because plywood and H/O possessions were blocking access to soil.

1 low VCS point was found in the yard area, 4 low in the flowerpots by  
trailer 2. Driveway was inspected from a depth of 0-4",  
because of difficulty of digging. Photographs of VCS taken

0958 offsite. See VVEF for complete list of visual inspections.

S. Wilson  
8-26-08  
S. Wilson

Volpe/Libby Asbestos Project. Logbook 101031. 8-26-08 31  
250 Estate Drive, AD-200268 owner: Mason

Governing Document: TAPE, Feb. 2008, PDWP, Nov. 2003.  
Weather: 59°F, cloudy. Visual Inspection Team: D. Shofman &  
S. Wilson (COM). Author: S. Wilson. PPE level D. Activities:  
Visual inspection for VCS.

1003 Onsite. H/O not present. Conduct site walkthrough, begin VI.  
For complete list, see VVEF

Notes: Driveway (UA-202760) inspected from a depth of  
0-4", because of difficulty in digging. No VCS  
observed in any of the zones. Not all of the yard  
(UA-202759) was inspected. At the east side of the  
property by the Estate Dr road some of the area was  
an NUA, overgrown area not on the map supplied.  
Photographs were taken of this area, and the areas  
that were inspected.

1145 offsite

S. Wilson  
8-26-08  
S. Wilson



651 (formerly 617) Waterfront Rd, AD-20020 owner: Boren  
 Governing Documents: TAPE, Feb 2008, PDIMP Nov, 2003 weather:  
 68°F, parting clouds. Visual Inspection Team: D. Shorman, S. Wilson  
 (CDM) Author: S. Wilson, PPE level D. Activities: Visual Inspection  
 for VCS

1301 Onsite. Speak with M/O. Conduct site walkthrough and begin  
 visual inspections. For a complete list, see VVEF.

Notes: Driveway was inspected from 0-4" because of difficulty  
 in digging. VCS observed, 1-L in yard (UA-202816), and  
 4-L in flowerbeds. (UA-202819). A flowerbed to the  
 side and back of the garage was observed that was not  
 on the map provided. This area was visually inspected  
 and included in UA-202819. Photographs were taken  
 of areas inspected.

1457 offsite

*Signature*  
 Simon Wilson  
 8-26-08

506 Grant Ave A & B. AD-20045. owner Kegan

Governing Documents: TAPE, Feb 2008, PDIMP Nov, 2003.

Weather: 72°F, overcast. Visual Inspection Team: D. Shorman,  
 S. Wilson (CDM) Author: S. Wilson, PPE level D. Activities:  
 Visual Inspection for VCS.

1515 Onsite. Because of confusion over property to be  
 inspected, team goes to 504 Grant Ave first, that  
 being the address given to inspect. The AD-number  
 and map are for 506 Grant Ave.

1520 Offsite to TerraTech office. After consulting M. Carlson  
 (TerraTech) and N. Bein (CDM) <sup>inspection</sup> ~~Sampling~~ team go back  
 to 506 Grant Ave A & B. <sub>SW 8-26-08</sub>

1530 Onsite. Conduct site walkthrough, talk to resident of  
 BD-202598. Begin visual inspections. For complete list,  
 see VVEF.

1610 Spoke with resident of BD-202597

Notes: Driveway (UA-203219) <sup>SW 8-26-08</sup> ~~SW~~ inspected from a depth of 0-4",  
 due to difficulty in digging. Having spoken with resident of  
 BD-202598 a second driveway was added to UA-  
 203219, <sup>not</sup> shown on map provided. This is to west of  
 building, and south of shed BD-202599. Flowerpots were  
 also observed and inspected that were not on map  
 provided. Photographs taken of areas inspected.

*Signature*  
 Simon Wilson  
 8-26-08  
 1650 offsite  
 SW 8-26-08

34 Volpe/Libby Asbestos Project Logbook 101031 8-27-08

209 Mineral Ave AD-200572 owner: Welch

Governing Documents: TAPE, Feb 2008, PDIMP, Nov. 2003.

Weather: 53°F, overcast. Visual Inspection Team: D. Shofman & S.

Wilson (COM). Author: S. Wilson. PPE level D. Activities: Visual Inspection for VCS.

0759 onsite. Spoke with H/O. Did site walkthrough, began visual inspections. For a complete list, see VVEF.

Notes: Driveway was inspected from a depth of 0-3", because of difficulty in digging. The map provided showed flowerpots, but visual inspection team only able to locate one, at a different location, by the tomato garden, UA-202527. This was inspected.

0948 Offsite, photographs having been taken of areas inspected.

0759  
S. Wilson  
8-27-08

Volpe/Libby Asbestos Project Logbook 101031 8-27-08

35

2575 Bull Lake Rd, AD-202006 owner: Judkins

Governing Documents: TAPE, Feb 2008, PDIMP, Nov. 2003

Weather: 51°F, overcast. Visual Inspection Team: D. Shofman,

S. Wilson (COM). PPE level D. Author: S. Wilson. Activities: Visual Inspection for VCS.

0759 Onsite. H/O not present. Did walkthrough, and began visual inspections for VCS. For a complete list, see VVEF.

Notes: On map provided, shed BD-202345 did not have a corresponding UA- for the lean to attached to the side. This had a soil floor that was inspected.

Special note needs to be made of the amount of vermiculite in the upper yard, UA-202946, where there were large baseball size or larger rocks of vermiculite, and suspected amphibole. There was also suspected amphibole in the long north flowerbed, UA-202943. Because it was out of the work scope and H/O was not there to ask permission, vermiculite chunks were not removed, but left in place. Photographs were taken of areas inspected, and suspected amphibole.

1154 Offsite

LATE ENTRY: Driveway was dug to a depth of 0-4" due to difficulty in digging  
SW 8-27-08

LATE ENTRY: Upper yard area, UA-202946 was dug 0-6", as on map provided it was marked as an SUA. SW 8-27-08

36 Volpe/Libby Asbestos Project Logbook 101031 8-27-08

208 Missoula Ave, AD-200578. Owner: Taylor

Governing documents: TAPE, Feb. 2005, PDIWP, Nov. 2003.

Weather: 56°F, mainly cloudy. Visual Inspection Team: D. Shortman, S. Wilson (CDM). Author: S. Wilson. PPE level D. Activities: Visual Inspection for VCS

1304 Onsite. H/O not present. Do site walkthrough and then begin visual inspections. For a complete list, see VVEF.

1330 H/O onsite. Brief interaction with H/O

Notes: Extra flowerbeds were inspected that were not on map

provided. See map for details. An area of yard was inaccessible, inspected and not sampled. <sup>on 8-27-08</sup> see map for details. One extra flowerpot was inspected that was not on the map provided. See map for details.

1452 offsite

S. Wilson 8-27-08  
Simon Wilson

Volpe/Libby Asbestos Project Logbook 101031 8-27-08 37

~~208~~ 615 Waterfront Rd, AD-200118, owner: Brown

Governing documents: TAPE, Feb. 2008, PDIWP Nov. 2003.

Weather: 60°F, clearing up. Visual Inspection Team: D. Shortman, S. Wilson (CDM) Author: S. Wilson. PPE level D. Activities: Visual inspection for VCS.

1459 onsite. Spoke with H/O. Did site walkthrough and began visual inspections. For a complete list, see VVEF.

Notes: Driveway (UA-202473) was sampled from a depth of 0-3", due to difficulty in digging.

1615 Offsite, to Troy CDM office

S. Wilson 8-27-08  
Simon Wilson

101080



*"Rite in the Rain"*

ALL-WEATHER  
TDANICIT

LIBBY ASBESTOS PROJECT

Miscellaneous Investigations

10/30/08 to 11/5/08



# Libby Asbestos Project

## CDM Contractor Logbook

### Return to:

Paul Lammers  
60 Port Blvd., Suite 201  
Libby, MT 59923  
406-293-8595

### Every Page:

- Logbook number, initial and date every page, sign and date last entry of the day. Line out once, initial and date all changes. NO blank lines.

### Daily Entries

- Author, date & time, weather, activities, persons on team, level of PPE, title of governing document.

Project \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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4	<sup>su 10-30-08</sup> <del>AD-200000</del> AD-200075 owner: Hibbs	10-30-08
5	509 Grant Ave owner: Palmer	10-30-08
6	594 Forest Dr owner: McCain	10-30-08
7	218 Mineral Ave owner: Speck	10-31-08
8	271 Silver Spur Loop Rd owner: Beasley-Scott	10-31-08
9	1275 Forest Ave owner: Rayson	10-31-08
10	AD-200692 - Missoula Ave. Troy Town Pump	10-31-08
11	403 N. 3rd St owner: Jones	11-3-08
12	AD-200266, Spur Loop Rd owner: Pluger	11-3-08
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19	510 Grant Ave owner: Chapel	11-5-08
20	167 Log Cabin Rd owner: Fagg	11-5-08
21	AD-200594 Spokane Ave owner: Rice	11-5-08
22	AD-200865 South side Rd owner: McCully	11-5-08

23-48 Voided

# Acronyms

VCS - vermiculite containing soil

VV - visible vermiculite

H/O - Homeowner

VVEF - visual vermiculite estimation form

VC - Vermiculite containing insulation

FB - Flowerbed.

11-10-08  
D. Wilson  
Hansen

Volpe/Libby Asbestos Project Logbook 101080

217 Grant Ave owner: Lundin 10-30-08

Team: S. Wilson, D. Shofman (CDM) Author: S. Wilson

PPE level D. Activities: Visual inspection for VCS.

Weather: 30°F, mist. Governing documents: PDWR Nov '05, TPE - Feb '08.

0830 Onsite. H/O not present. Did site walk (Kerning)

UA-200270 (sandbox) not present, could not inspect.

No flowerpots to inspect, so could not do UA-200199 either.

Driveway areas inspected 0-4" due to difficulty in digging.

VCS observed in flowerbed see sketch & VVEF for more details

Took photographs

1020 Offsite

10-30-08

S. Wilson  
S. Wilson

Volpe/Libby Asbestos Project

Logbook 101080

AD-200075 owner J. Hibbs 10-30-08

Team: S. Wilson, D. Shortman (Com), Author: S. Wilson, PPE

level D. Activities: Visual inspection for VCS, weather 31°F, misty

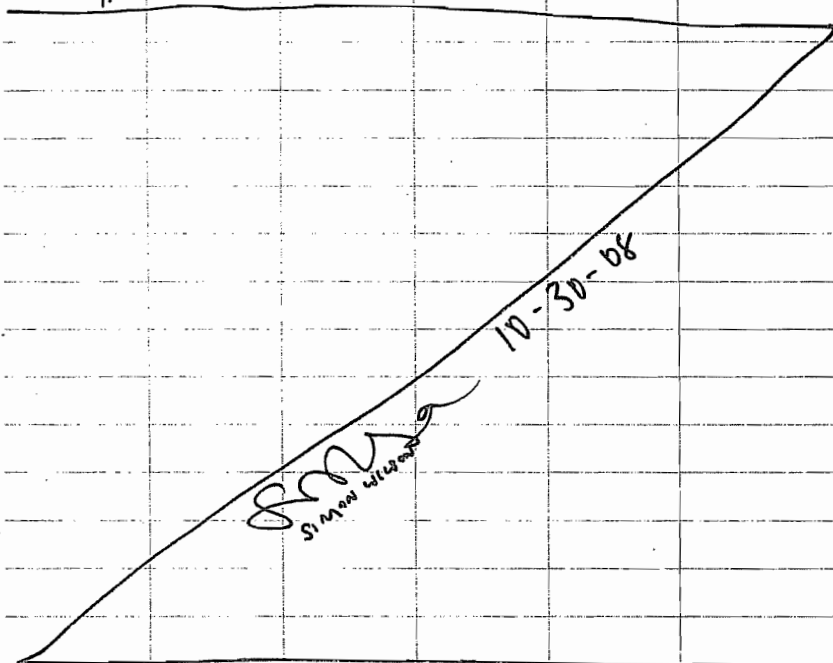
Governing documents - PDI WP-Nov '03 TAPE-Feb '08

1040 Onsite. Did not meet with property owner, as unclear which property the horse pasture and adjoining area are associated with. Could not locate street address provided (1205 Forest Ave)

VCS observed in pasture. See sketch &amp; VVEF for more details.

Took photos

1135 Offsite



Volpe/Libby Asbestos Project

Logbook 101080

509 Grant Ave owner: Palmer 10-30-08

Team: S. Wilson, D. Shortman (Com), Author: S. Wilson, PPE level

D. Activities: Visual inspection for VCS. Weather: 47°F,

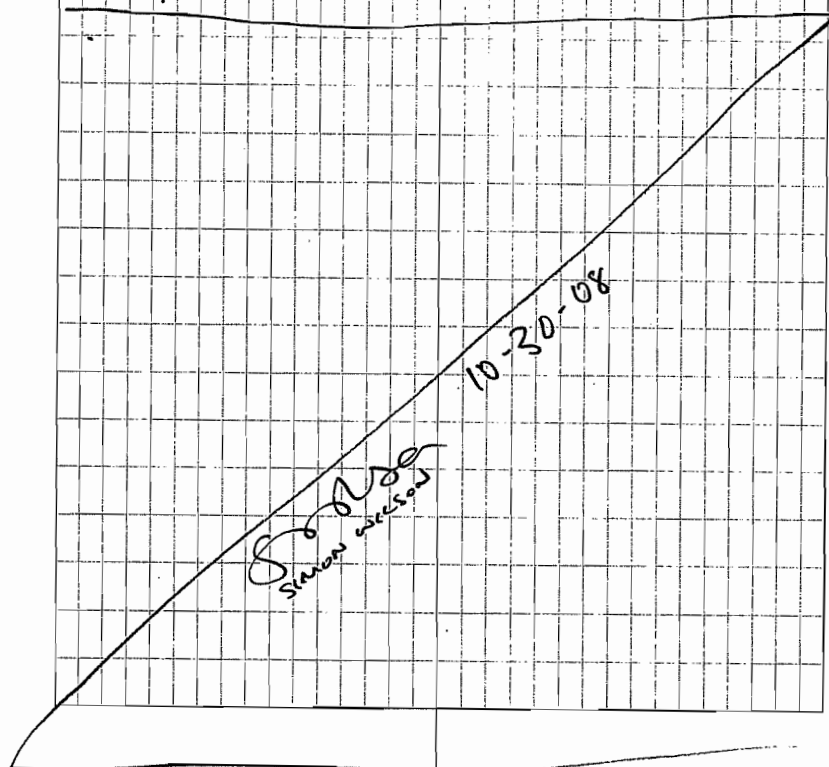
cloudy. Governing documents - PDI WP-Nov '03 TAPE-Feb '08

1330 Onsite. H/O not present. Do site walkthrough.

VCS observed in yard. Flowerbeds and garden. See VVEF & sketch for more details.

Took photos

1450 Offsite



## Volpe/Libby Asbestos Project Logbook 101080

594 Forest Dr owner: McCain 10-30-08

Team: S. Wilson, D. Shortman (CDM) Author: S. Wilson. PPE level D

Activities: Visual inspection for VCS. Weather: 51°F, clear. Governing

Documents: PDIWP, Nov 2003, TAPE, Feb 2008

1505 Onsite, met with H/O. Did site walkthrough &amp; began inspection.

VCS observed in flowerbed, part of yard near deck, and deck.

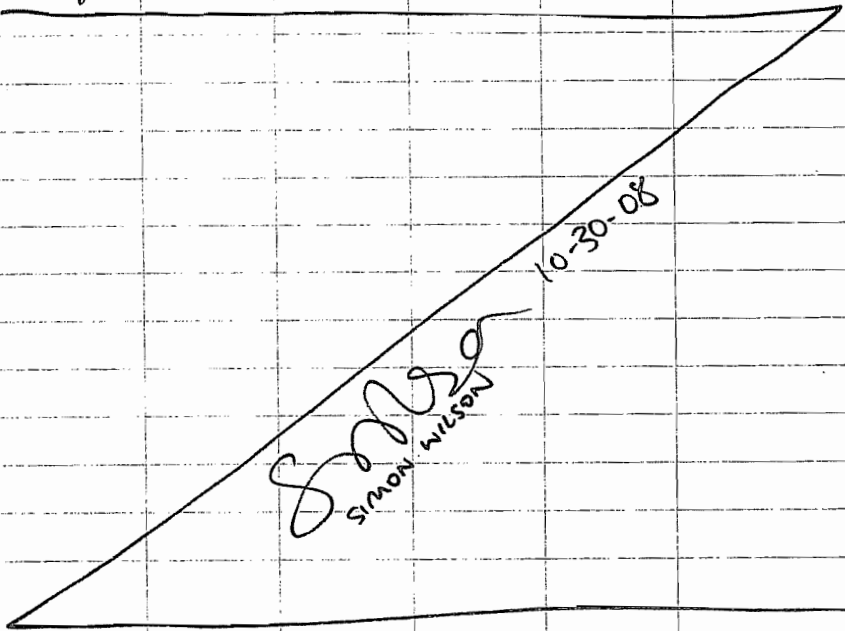
Driveway inspected 0-3" deep, due to difficulty in digging.

Photos taken of areas inspected.

For more details on VCS observed, see VVEF and sketch.

Garden has a liner, deeper than 6", could not inspect under the liner.

1615 Offsite



10-30-08  
S. Wilson  
SIMON WILSON

## Volpe/Libby Asbestos Project Logbook 101080

218 Mineral Ave owner: Speck ~~10-30-08~~ <sup>10-31-08</sup> 10-31-08

Team: S. Wilson, D. Shortman (CDM) Author: S. Wilson. PPE

level D. Activities: Visual inspection for VCS. Weather: 30°F, cloudy. Governing documents: PDIWP, Nov 2003, TAPE, Feb 2008.

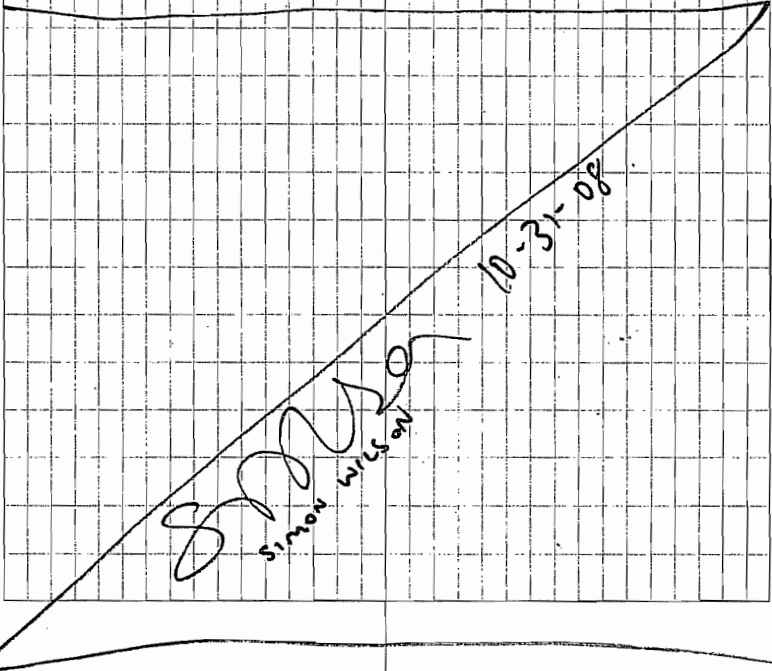
0830 onsite. H/O not present. Do site walkthrough &amp; begin inspection.

VCS observed in UA-200801 (vegetable garden). For more details see VVEF and sketch.

Driveway inspected 0-3" due to difficulty in digging.

Photos taken of areas inspected.

0930 offsite.



10-31-08  
S. Wilson  
SIMON WILSON



## Volpe/Libby Asbestos Project

Logbook 101080

271 Silver Spur Loop Rd owner: Beasley-Sutt 10-31-08

Team: S. Wilson, D. Shortman (COM) Author: S. Wilson, PPE level D.

Activities: Visual inspection for VCS. Weather: 34°F, cloudy. Governing Documents - PDWIP, Nov 2003, TAPE, Feb 2008

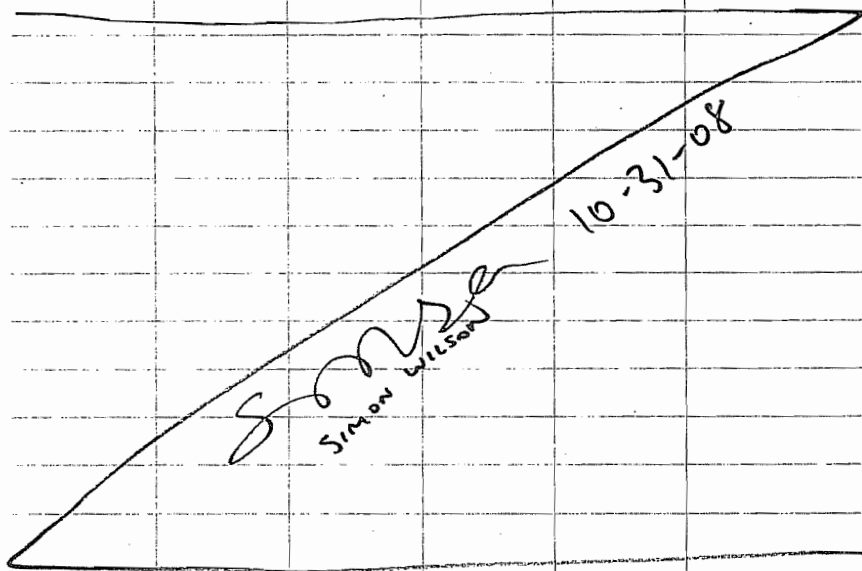
1030 Onsite. Met with H/O. Conduct site walkthrough &amp; begin inspection.

VCS observed in part of yard and garden. Part of garden had a liner, unable to inspect under liner, as it was deeper than 6". No VCS observed in part of garden with liner. VCS observed in part of garden south of shed. For more details see VUEF & sketch.

Driveway inspected 0-3" due to difficulty in digging.

Photographs taken of areas inspected.

1150 Offsite



## Volpe/Libby Asbestos Project

Logbook 101080

1275 Forest Ave owner: Rayson 10-31-08

Team: S. Wilson, D. Shortman (COM) Author: S. Wilson, PPE

level D. Activities: Visual inspection for VCS. Weather: 47°F, overcast. Governing documents: PDWIP, Nov 2003, TAPE Feb 2008.

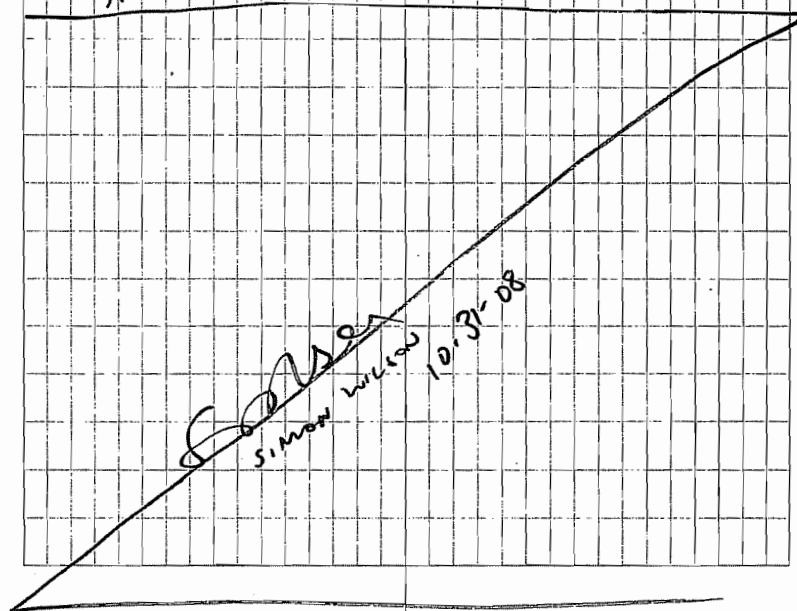
1330 Onsite. H/O not present. Do site walkthrough, and begin inspection.

VCS observed in flowerbed. Flowerbeds had liners and decorative rock. For more details see VUEF & sketch.

Driveway inspected 0-3" due to difficulty in digging. Photos taken of areas inspected.

1430 H/O's son onsite

1455 Offsite.



Volpe/Libby Asbestos Project Logbook 101080

Missoula Ave Troy Town Pump (AD-200692) 10-31-08

Team: S. Wilson, D. Shortman (COM) Author: S. Wilson. PPE level

D. Activities: Visual inspection for VCS. Weather: 50°F, Cloudy.

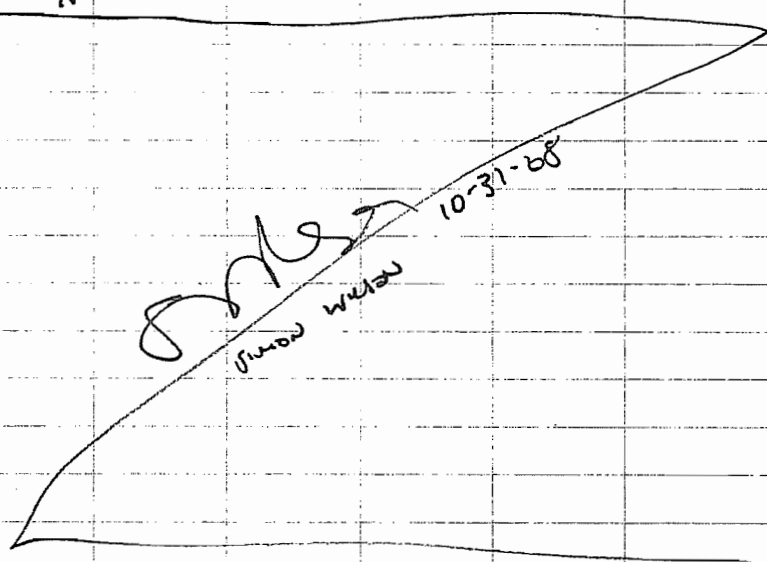
Governing Documents - PDIWP, Nov. 2003, TAPE Feb. 2008.

1500 Onsite. Met with Town Pump employee, Kim (Nanger Trineer). Gave her ERS phone number for a property she had concerns about in Libby. Did site walkthrough. Began inspection.

VCS observed in flowerbed alongside 2nd St. For more details see VUEF & Sketch.

Driveway inspected 0-3" due to difficulty in digging. Photos taken of areas inspected.

1535 Offsite



Volpe/Libby Asbestos Project Logbook 101080

403 N. 3rd St owner: Jones 11-3-08

Team: S. Wilson, D. Shortman (COM) Author: S. Wilson

PPE level D. Activities: Visual inspection for VCS. Weather:

36°F, Cloudy. Governing documents - PDIWP, Nov. 2003,

TAPE, Feb. 2008.

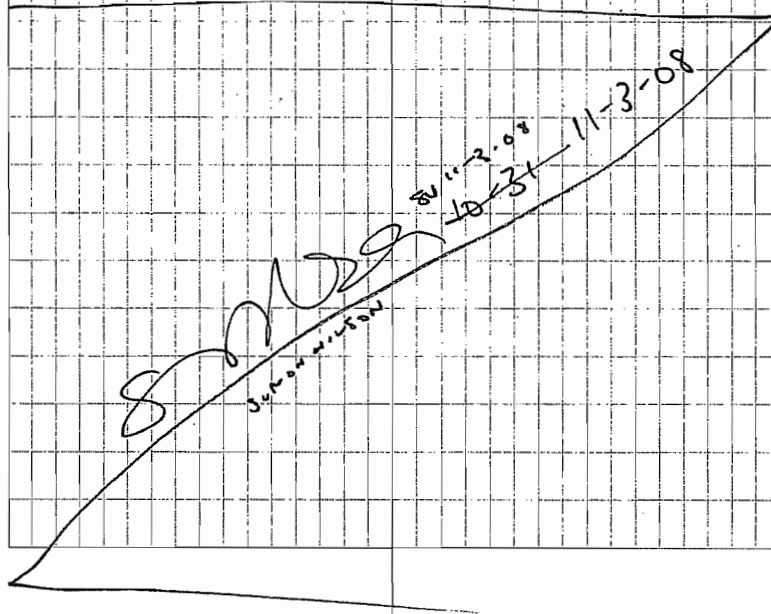
0830 Onsite. H/O not present. Did site walkthrough.

UA-200225 (Flowerbed) not present, has been incorporated into yard (UA-200157).

VCS observed in UA-200159 (Flowerbed), for more details see VUEF and Sketch.

Photos taken of areas inspected.

1000 Offsite



Volpe/Libby Asbestos Project Logbook 101080

Spur Loop Rd, AD-200266 owner: Plutiger 11-3-08

Team: S. Wilson, D. Shortman (COM) Author: S. Wilson. PPE level

D. Activities: Visible inspection for VCS. Weather: 39°F, cloudy.

Governing documents: PDWLP, Nov. 2003, TAPE Feb. 2008.

1030 Onsite, met with H/O. He mentioned that in the past he had disposed of VCI leaking inside his house down the embankment opposite his house. However, this is not a area that had been inspected during the 06-26-07 site visit, and so was not inspected today.

Whilst there is an area size given for the former garden (UA-200810) and the H/O was present to point out where it was, there is now just lawn, and no indication of where it was. So today's inspection might not be in exactly the same spot as the 06-26-07 inspection took place.

Driveway area inspected 0-3" due to difficulty in digging. VCS observed in part of yard, flowerbeds, flowerpots. See VUEF & sketch for more details.

Photos taken.

1225 Offsite

*Simon Wilson*  
11-3-08

Volpe/Libby Asbestos Project Logbook 101080 11-3-08

102 W. Missoula Ave owner: Downey. Team: S. Wilson,

D. Shortman (COM). Author: S. Wilson. PPE level D. Activities:

Visual inspection for VCS. Weather: 47°F, partly cloudy.

Governing documents: PDWLP, Nov. 2003, TAPE, Feb. 2003.

1230 Onsite, H/O not present. Did site walkthrough, trailer is no longer there. Because <sup>grass</sup> ~~grass~~ <sup>area</sup> has not grown where trailer's footprint is, it is still possible to inspect UA-200790 as it was on 6-18-07.

VCS observed in some flowerbeds and part of yard. For more details see VUEF and sketch.

Driveway inspected 0-3" due to difficulty in digging.

Photos taken of areas inspected.

1515 Offsite

*Simon Wilson*  
11-3-08



## Volpe/Libby Asbestos Project Logbook 10/080

AD-200407 Grant Ave owner: Winslow 11-3-08

Team: S. Wilson, D. Shortman (COM), Author: S. Wilson, PPE level D.

Activities: Visual inspection for VCS. Weather: 51°F, partly cloudy.

Governing documents: PDIWP, Nov. 2003, TAPE, Feb. 2008.

1520 Onsite for visual inspection at AD-200407, which includes numbers 402, 404, 406, 408, 410, 412, &amp; 414 Grant Ave.

Spoke with owner of trailer 410.

Poor light conditions made observing VCS difficult.

Driveways inspected 0-3' due to difficulty in digging.

Took photos.

VCS observed in one flowerbed behind no. 412, and under porch &amp; attachment of no. 408. For more details

see VUEF &amp; sketch.

1630 Offsite

S. Wilson  
11-3-08

## Volpe/Libby Asbestos Project

Logbook 10/080

3320 Highway 2 W owner: West 11-4-08 Team:

S. Wilson, D. Shortman (COM), Author: S. Wilson, PPE level D.

Activities: Visual inspection for VCS. Weather: 34°F, cloudy.

Governing documents: PDIWP, Nov. 2003, TAPE, Feb. 2008.

0835 Onsite. Spoke with H/O's daughter. Did site walkthrough &amp; began inspection.

VCS observed in flowerpot, flowerbed &amp; around pen. For more details see VUEF &amp; sketch.

Driveway inspected 0-3' due to difficulty in digging. Took photos.

1815 Offsite

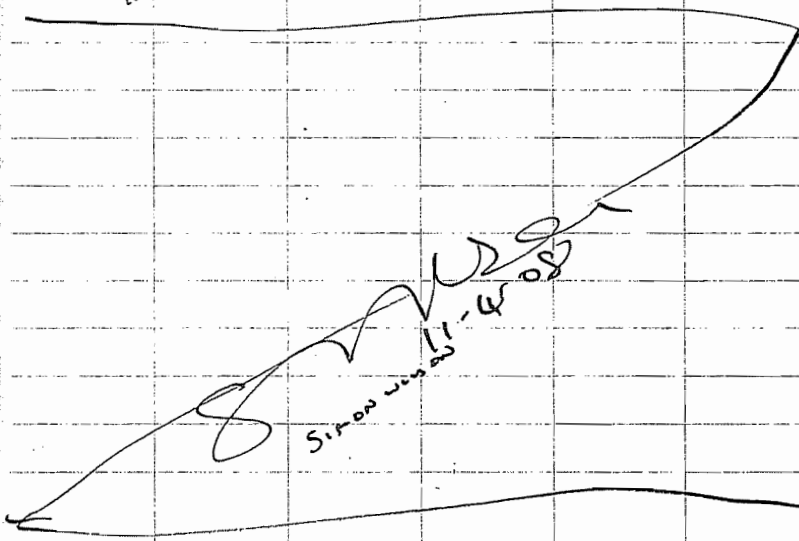
S. Wilson  
11-4-08

Volpe/Libby Asbestos Project Logbook 101080 11-4-08  
 891 N. Hwy 2 owner: Sanders. Team: S. Wilson, D. Shortman  
 (CDM). Author: S. Wilson. PPE level D. Activities: Visual inspection  
 for VCS. Weather: 39°F, raining. Governing documents: PDIWP,  
 Nov. 2003, TAPE, Feb. 2008.

1030 onsite. H/O present. Did site walkthrough. Part of property  
 is on the opposite side of Highway 2, did not inspect this  
 area, due to H&S concerns of crossing highway, and also it  
 was not clear from sketch provided if this was a part of  
 UA-200795 or not.

Driveway inspected 0-3", due to difficulty in digging.  
 VCS observed in garden, couple of flowerbeds and part of  
 yard. For more details, see VVEF & sketch.  
 Took photos.

1140 Offsite

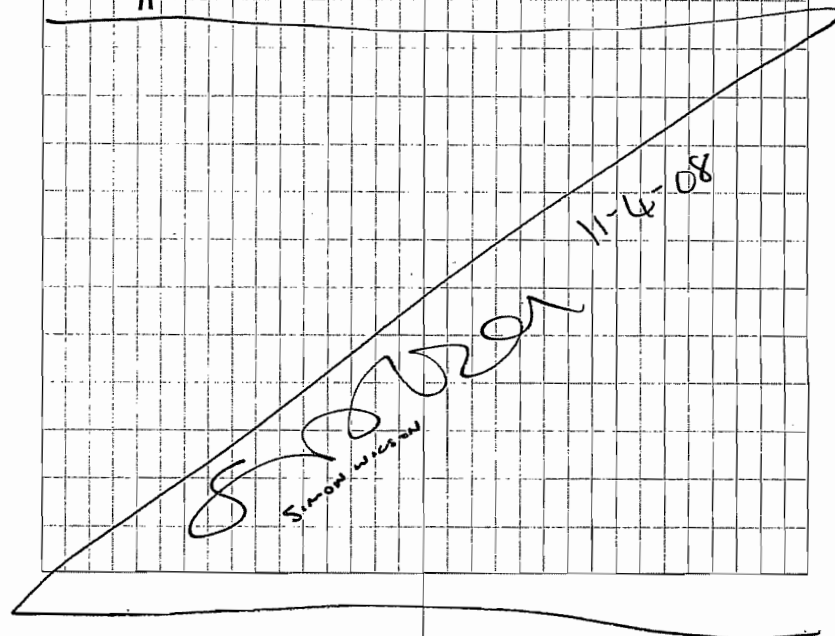


Volpe/Libby Asbestos Project Logbook 101080 11-4-08  
 229 E. Kalispell Ave owner: Hicks. Team: S. Wilson, D.  
 Shortman (CDM). Author: S. Wilson. PPE level D.  
 Activities: Visual inspection for VCS. Weather: 38°F raining.  
 Governing documents: PDIWP, Nov. 2003 & TAPE, Feb. 2008.

1145 Onsite. Spoke with H/O about doing inspection  
 early. Did site walkthrough, began inspection  
 VCS observed in some flowerbeds, for more details  
 see VVEF & sketch.

Driveway inspected 0-3", due to difficulty in  
 digging.  
 Took photos.

1300 Offsite



Volpe/Libby Asbestos Project. Logbook 101080 11-4-08  
 819 Freeman Ridge Rd owner: Sonntag. Team: S. Wilson,  
 D. Shortman (COM) Author: S. Wilson. PPE level D. Activities:  
 Visual inspection for VCS. Weather: 36°F, raining. Concerning  
 Documents - PDWIP Nov. 2003, TAPE Feb. 2008.

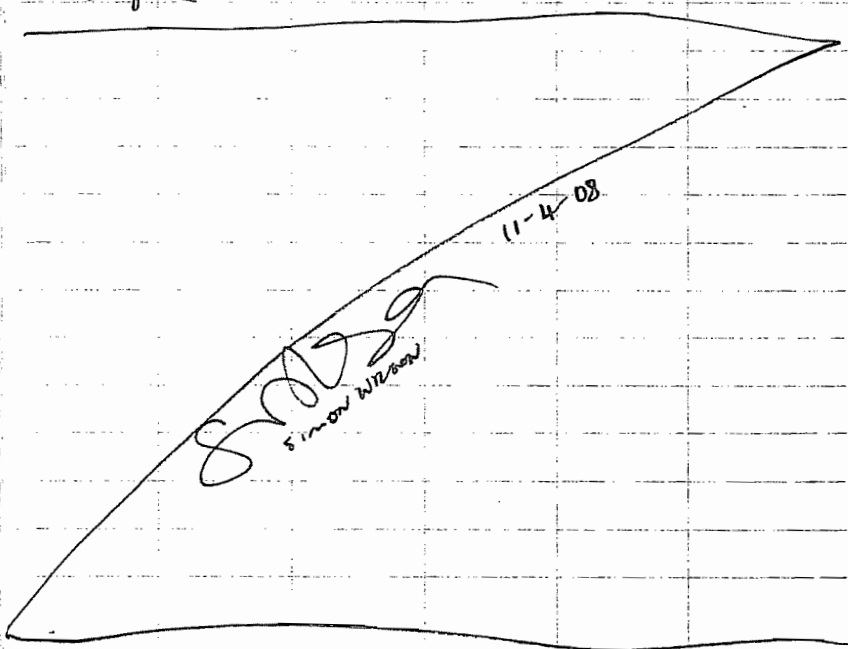
1345 Onsite. H/O not present. Did site walkthrough & began  
 inspection.

VCS observed in former garden and part of FB

Driveway inspected 0-3", due to difficulty  
 in digging.

Photos taken.

For more details on VCS observed, see VUEF & sketch  
 1545 offsite



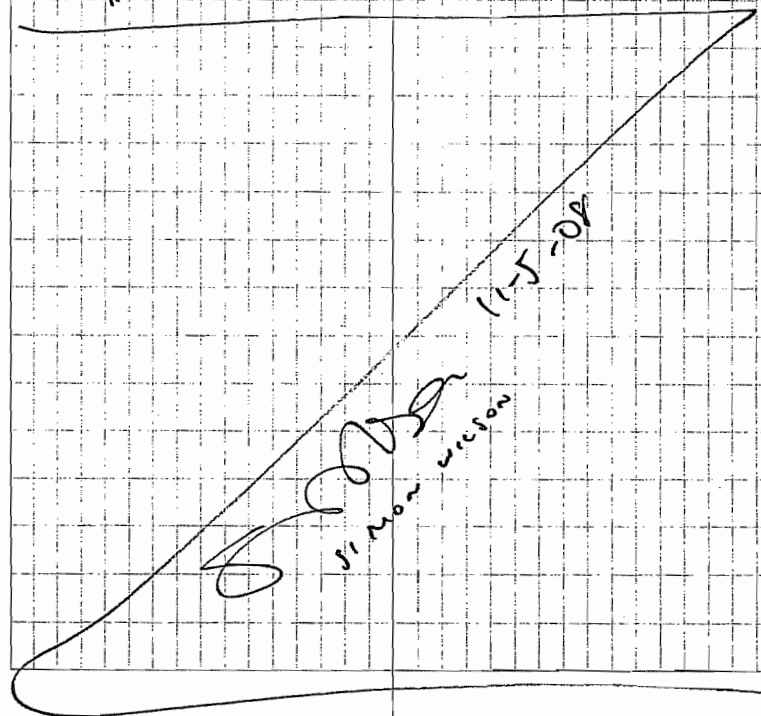
Volpe/Libby Asbestos Project Logbook 101080 11-5-08  
 510 Grant Ave owner: Chapel Team: S. Wilson, D.  
 Shortman (COM) Author: S. Wilson. PPE level D.  
 Activities: Visual inspection for VCS. Weather 37°F,  
 cloudy. Concerning documents - PDWIP, Nov. 2003,  
 TAPE Feb. 2008.

0830 Onsite. H/O not present. Did site walkthrough.  
 Began inspection.

No VCS observed. For more details, see VUEF & sketch.

Photos taken

0930 Offsite





Volpe/Libby Asbestos Project Logbook 101080 11-5-08  
 167 Coy Cabin Rd owner: Fagg Team: S. Wilson, D. Shastman  
 (COM) Author: S. Wilson. PPE level D. Activities: Visual inspection  
 for VCS. Weather: 33°F, cloudy. Governing documents:  
 PDIWP, Nov. 2003. TAPE, Feb. 2008.

0935 Onsite. Spoke with H/O. Did site walkthrough, began inspection.

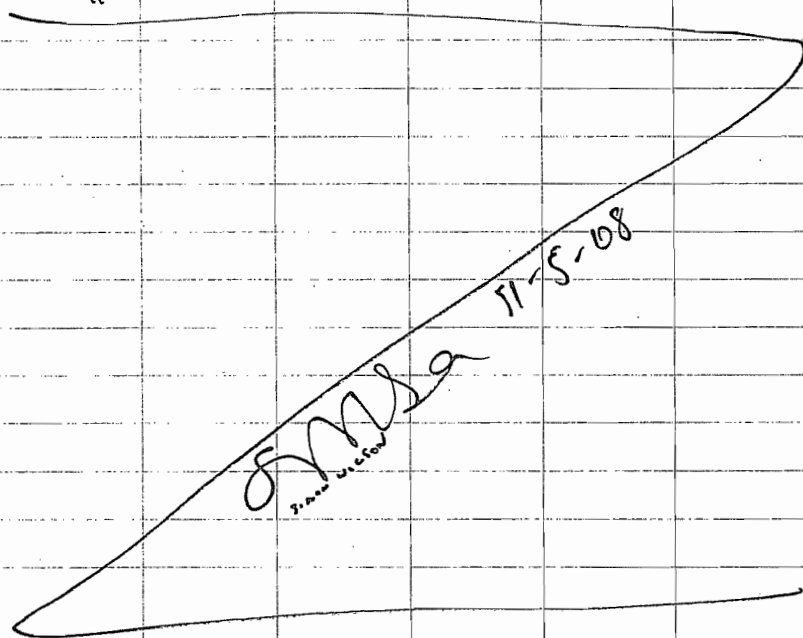
N. Bein (COM) onsite

1015 N. Bein offsite.

VCS observed in flowerbed. See VUEF & sketch for more details.

Driveway inspected 0-3" due to difficulty in digging  
 Took photos

1134 Offsite



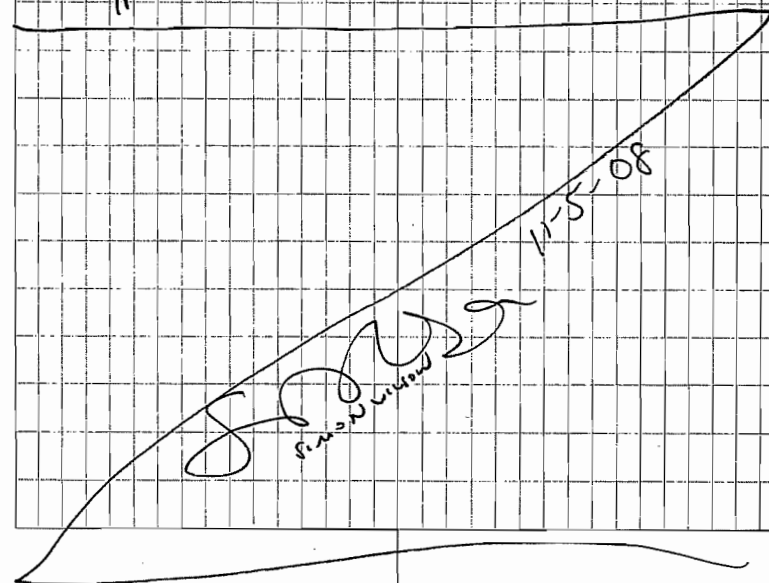
Volpe/Libby Asbestos Project Logbook 101080  
 AD-200594 Spokane Ave owner: Rice 11-5-08  
 Team: S. Wilson, D. Shastman (COM), Author: S. Wilson  
 PPE level D. Activities: Visual inspection for VCS. Weather:  
 40°F, cloudy. Governing documents: PDIWP, Nov. 2003,  
 TAPE, Feb. 2008.

1140 Onsite, spoke with H/O. Did site walkthrough, began inspection.

VCS observed in flowerbed and driveway UA-200183. See VUEF & sketch for more details.

Both driveway areas inspected 0-3", due to difficulty in digging.  
 Took photos.

1200 Offsite



Volpe/Libby Asbestos Project Logbook 101080 11-5-08

South Side Rd - AD-200865 owner: McCully

Team: S. Wilson, D. Shortman (CON) AIAWOR-S. Wilson. PPE (all)

D. Activities: Visual inspection for VCS. Weather: 42°F, cloudy. Governing documents: TAFE, Feb. 2008, PDWP, Nov. 2003.  
1325 Onsite. H/O not present. Do site walkthrough, begin inspection.

1426 H/O onsite.

VCS observed in FB. See VVEF & sketch for more details.

Driveway inspected 0-3", due to difficulty in digging.

Photos taken.

1440 Offsite

*S. Wilson*  
11-5-08

No Further Entries

*Nicole Bein*  
11-10-08